

Matt Huenerfauth
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Professional Appointments

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| Rochester Institute of Technology (RIT) | Rochester, NY |
| B. Thomas Golisano College of Computer and Information Sciences | |
| Dean , B. Thomas Golisano College of Computing and Information Sciences | 2022 to Present |
| Director (department head), The School of Information – The iSchool | 2020 to 2022 |
| Professor , The iSchool and the Ph.D. Program in Computing and Information Sciences | 2017 to Present |
| Associate Professor , The iSchool and the Ph.D. Program in Computing and Info. Sciences | 2014 to 2017 |
| City University of New York (CUNY) | New York, NY |
| Associate Dean , Division of Math and Natural Sciences, CUNY Queens College | 2012 to 2014 |
| Associate Professor , Department of Computer Science, CUNY Queens College | 2012 to 2014 |
| Assistant to the Dean , Division of Math and Natural Sciences, CUNY Queens College | 2011 to 2012 |
| Assistant Professor , Department of Computer Science, CUNY Queens College | 2006 to 2011 |

Research Focus

Computing Accessibility: Design and evaluation of technology to benefit people who are Deaf or Hard of Hearing (DHH) or people with lower levels of written-language literacy.

Human Computer Interaction (HCI): Design of artificial-intelligence-based systems and experimental evaluations with human participants, the usability of linguistic and accessibility technology among people who are Deaf or Hard of Hearing, and the design of technology to support people who are learning American Sign Language (ASL).

Computational Linguistics: Use of automatic speech-recognition (ASR) within communication applications for DHH users, collection and linguistic annotation of video and motion-capture corpora of ASL, and natural language processing (NLP) technologies for ASL animation generation and synthesis.

Research Awards (International)

Best Paper Award Nominee. (2023). For “Who is speaking: Unpacking In-text Speaker Identification Preference of Viewers who are Deaf and Hard of Hearing while Watching Live Captioned Television Program” at the *20th International Web for All Conference (W4A '23)*.

Best Paper Honorable Mention. (2022). For “Remotely Co-Designing Features for Communication Applications using Automatic Captioning with Deaf and Hearing Pairs” at the *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI'22)*. This designation is given to the top 5% of peer-reviewed submissions to CHI'22.

Best Paper Award Nominee. (2021). For “American Sign Language Video Anonymization to Support Online Participation of Deaf and Hard of Hearing Users” at the *23rd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'21)*.

Best Paper Award. (2019). For “Sign Language Recognition, Generation, and Translation: An Interdisciplinary Perspective” at the *21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'19)*. Five-time winner of the Best Paper Award at *ASSETS*, more than any individual in the history of the conference.

Best Paper Award. (2019). For “Design and Evaluation of a User-Interface for Authoring Sentences of American Sign Language Animation” at the *13th International Conference on Universal Access in Human-Computer Interaction*.

Best Paper Award. (2018). For “Modeling the Speed and Timing of American Sign Language to Generate Realistic Animations” at the *20th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'18)*.

Best Paper Honorable Mention. (2018). For “Methods for Evaluation of Imperfect Captioning Tools by Deaf or Hard-of-Hearing Users at Different Reading Literacy Levels” at the *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI'18)*. This designation is given to the top 5% of peer-reviewed submissions to CHI'18.

ACM Distinguished Member. (2017). The Association for Computing Machinery (ACM) raises approximately 45 individuals internationally to this status each year who have over 15 years of professional experience, have achieved significant scientific or technical accomplishments, and have made a significant impact on the field of computing.

Best Paper Award. (2017). For “Evaluating the Usability of Automatically Generated Captions for People who are Deaf or Hard of Hearing” at the 19th *International ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS’17).

Best Paper Nominee. (2017). For “Design and Psychometric Evaluation of an American Sign Language Translation of the System Usability Scale” at the 19th *International ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS’17). This designation is given to the top 5% of peer-reviewed papers submissions to the conference.

ACM Senior Member. (2014). The Association for Computing Machinery (ACM) honors members with at least 10 years of professional experience and demonstrated performance through technical leadership or contributions.

Faculty Early Career Development (CAREER) Award. (2008). U.S. National Science Foundation’s most prestigious research award in support of junior faculty who integrate research and education within the mission of their organizations. The award comes with a federal grant for research and education activities for five consecutive years.

Best Paper Award. (2007). For the paper “Evaluating American Sign Language Generation Through the Participation of Native ASL Signers” at the 9th ACM SIGACCESS Conference on Computers and Accessibility (ASSETS’07).

Best Paper Award. (2005). For the paper entitled “Representing Coordination and Non-Coordination in an American Sign Language Animation” at the 7th ACM SIGACCESS Conference on Computers and Accessibility (ASSETS’05).

Research Awards (University)

Trustees Scholarship Award. (2018). This university-wide award honors an RIT faculty member with a sustained record of scholarship excellence, especially work that has been integral to the student educational experience at RIT. The recipient is also honored as a member of the platform party at the RIT Commencement Ceremony in May.

GCCIS Outstanding Scholar Award. (2018). This college-wide award for excellence in research and scholarship is awarded to a faculty member in the B. Thomas Golisano College of Computing and Information Sciences (GCCIS).

NTID Partner Award. (2018). Office of the Associate Dean for Research, National Technical Institute for the Deaf. Inaugural winner of this award, honoring a collaborator from one of RIT’s other colleges who has helped NTID realize its research goals. Independently nominated for this award by three different NTID researchers.

Top Contributor to RIT’s Faculty Scholarship Report. (2018). Rochester Institute of Technology. Researcher from the Golisano College of Computing with the greatest number of contributions to the 2017 Faculty Scholarship Report (the #3 contributor for the university overall).

RIT PI Millionaire. (2017). Rochester Institute of Technology, designation given to RIT researchers who have achieved funding of \$1 million or more in external grants to RIT. (Joined the faculty of RIT in August 2014.)

Featured Faculty in RIT’s Faculty Scholarship Report. (2017). Selected by the dean of the Golisano College of Computing and Information Sciences as the faculty member to be featured in the 2016 RIT annual report of scholarship; this annual report lists the publications, research presentations, and research grants of all RIT faculty.

Certificate of Recognition for Outstanding Scholarly Achievement. (2016). Rochester Institute of Technology. Award from the Office of the Provost of RIT as researcher from the Golisano College of Computing with the greatest number of contributions to the 2015 Faculty Scholarship Report (the #4 contributor for the university overall).

Certificate of Recognition. (2008 and 2007). CUNY Chancellor’s “Salute to Scholars” Ceremony.

Research and Teaching Awards (Student)

Morris & Dorothy Rubinoff Award. (2007). Innovative Dissertation in Computer Science, University of Pennsylvania.

Best Doctoral Candidate Award. (2004). The ACM SIGACCESS Conference on Computers and Accessibility.

Teaching Practicum Award. (2003-2004). Department of Computer and Information Science, U. Pennsylvania.

Computing Research Association, Outstanding Undergraduate Research Awards, Honorable Mention. (2001).

Fellowships

National Science Foundation Graduate Research Fellowship. (2003-2006). Full fellowship for doctoral studies.
George J. Mitchell Scholarship. (2001-2002). National fellowship for twelve U.S. students to study in Ireland.
British Marshall Scholarship. (Declined to accept Mitchell Scholarship). National fellowship to study in the UK.
USA Today All-USA Collegiate Academic First Team. (2001) National scholarship for twenty U.S. students.
Eugene DuPont Memorial Distinguished Scholar. (1997-2001). Full scholarship to the University of Delaware.

Educational History

University of Pennsylvania, Department of Computer and Information Science, Philadelphia, Pennsylvania, USA.

Doctor of Philosophy (Ph.D.), 2006. GPA 4.00

Master of Science in Engineering (M.S.E.), 2004. GPA 4.00

Thesis: Generating American Sign Language Classifier Predicates for English-to-ASL Machine Translation.

ASL Courses: American Sign Language (Levels 1 to 5), Fingerspelling (Levels 1 & 2), Deaf Culture, Conversation & Application (Level 4), and Classifier Predicates (Levels 1 & 2).

National University of Ireland, University College Dublin, Department of Computer Science, Dublin, Ireland.

Master of Science (M.Sc.), 2002. Research degree: human computer interaction, user-interface design, computer accessibility for people with special user-interface needs.

Master's Thesis: Designing user-interfaces for illiterate users in developing communities in India.

University of Delaware, Department of Computer and Information Science, Newark, Delaware, USA.

Master of Science (M.S.), 2001. GPA 4.00

Honors Bachelor of Science (H.B.S.), 2001. GPA 4.00 Minor in Cognitive Science

Master's Thesis: Building a natural language generation text-planning component to produce tutorial output for educational software for deaf children learning English writing skills.

Honors: Summa Cum Laude, Top Index Graduating Student (Rank 1 of 3174).

Honor Societies: Phi Kappa Phi, Upsilon Pi Epsilon (Computer Science), Golden Key, Omicron Delta Kappa, Alpha Lambda Delta, National Society of Collegiate Scholars.

External Research Funding (PI/co-PI share of funding awards in bold below, totaling \$5,475,272)

Matt Huenerfauth (PI). November 2022 to November 2023. "NSF Convergence Accelerator Track H: AI-based Tools to Enhance Access and Opportunities for the Deaf." National Science Foundation, Convergence Accelerator. Sub-award to RIT: **\$59,946.**

Matt Huenerfauth (PI). August 2022 to July 2025. "Collaborative Research: HCC: Medium: Linguistically-Driven Sign Recognition from Continuous Signing for American Sign Language (ASL)." National Science Foundation, CISE Directorate, IIS Division, Human Centered Computing (HCC) Program. Award total: **\$165,014.**

- Collaborative research project, linked to corresponding NSF research grants to Carol Neidle, P.I., Boston University, and to Dimitris Metaxas, P.I., Rutgers University. Overall project total: \$1,199,116

Cecilia Alm (PI), Reynold Bailey (co-PI), Esa Rantanen (co-PI), Ferat Sahin (co-PI), Kristen Shinohara (Senior Personnel until August 2022, co-PI after August 2022), Matt Huenerfauth (co-PI until August 2022, Senior Personnel after August 2022), Rain Bosworth (senior personnel), Gabriel Diaz (senior personnel), Christopher Kanan (senior personnel). September 2021 to August 2026. "NRT-AI: AWARE-AI: AWAREness for Sensing Humans Responsibly with AI." National Science Foundation. Award to RIT: \$1,994,676, co-PI summer salary support: **\$22,958.** Budget supports trainee fellowships, educational activities, and subject fees.

Matt Huenerfauth (PI). September 2020 to May 2022. “NSF Convergence Accelerator Track D: Data & AI Methods for Modeling Facial Expressions in Language with Applications to Privacy for the Deaf, ASL Education & Linguistic Research.” National Science Foundation, Convergence Accelerator. Sub-award to RIT: **\$61,434**.

- Sub-award as part of joint proposal with Rutgers University and Boston University, with main award PIs as follows: Dimitris Metaxas (PI), Mariapaola D’Imperio (co-PI), Matt Huenerfauth (co-PI), Carol Neidle (co-PI), with Rutgers University serving as the prime recipient. Overall project total: \$1,000,000.

Matt Huenerfauth (PI), Lisa Elliot (co-PI). October 2020 to September 2023. “CHS: Medium: Critical Factors for Automatic Speech Recognition in Supporting Small Group Communication Between People who are Deaf or Hard of Hearing and Hearing Colleagues.” National Science Foundation, CISE Directorate, IIS Division, Cyber-Human Systems (CHS) program. Award total: **\$499,906**.

Matt Huenerfauth (PI). October 2018 to September 2023. “Twenty-First Century Captioning Technology, Metrics and Usability.” Department of Health and Human Services - Administration for Community Living - National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR) - Disability and Rehabilitation Research Projects (DRRP) program. Sub-award to RIT: **\$599,881**.

- Sub-award as part of joint proposal with Gallaudet University and Apptek, with PIs: Christian Vogler (Gallaudet University), Raja Kushalnagar (Gallaudet University), Matt Huenerfauth (RIT), and Jintao Jiang (Apptek), with Gallaudet University serving as the prime recipient. Overall project total: \$2,000,000.

Matt Huenerfauth (PI). September 2019 to August 2022. “Dataset of American Sign Language Personal-Assistant Interactions for Model Training.” Microsoft Artificial Intelligence for Accessibility (AI4A) grant program. Award total: **\$241,104**.

Matthew Seita (student fellowship recipient), Matt Huenerfauth (faculty advisor). September 2018 to August 2022. National Science Foundation Graduate Research Fellowship (NSF-GRF) to Matthew Seita. Amount of funding: Tuition and stipend for three years, approximate value: **\$138,000**.

Matt Huenerfauth (PI), Lisa Elliot (co-PI). August 2018 to July 2022. “Collaborative Research: Automatic Text-Simplification and Reading-Assistance to Support Self-Directed Learning by Deaf and Hard-of-Hearing Computing Workers.” National Science Foundation, Cyberlearning for Work at the Human-Technology Frontier Program. Award total: **\$391,868**.

- Collaborative research project, linked to corresponding NSF research grant to Wei Xu, P.I., Ohio State University. Overall project total: \$759,600

Matt Huenerfauth (PI). July 2018 to June 2023. “CHS: Medium: Collaborative Research: Scalable Integration of Data-driven and Model-based Methods for Large Vocabulary Sign Recognition and Search.” National Science Foundation, CISE Directorate, IIS Division, Cyber-Human Systems (CHS) Program. Award total: **\$209,096**.

- Collaborative research project, linked to corresponding NSF research grants to Carol Neidle, P.I., Boston University, and to Dimitris Metaxas, P.I., Rutgers University. Overall project total: \$1,199,118

Cecilia Alm (PI), Reynold Bailey (co-PI), Matt Huenerfauth (Senior Personnel), Joe Geigel (Senior Personnel), Ammina Kothari (Senior Personnel), Kristen Shinohara (Senior Personnel), Tracy Worrell (Senior Personnel). April 2019 to March 2023. “REU Site: Computational Sensing for Human-centered AI.” National Science Foundation, CISE Directorate, Division of Computer and Network Systems. Award total: \$359,927.

Matthew Dye (PI), Matt Huenerfauth (co-PI), Corrine Occhino (co-PI), Andreas Savakis (co-PI). July 2018 to October 2022. “Collaborative Research: Multimethod Investigation of Articulatory and Perceptual Constraints on Natural Language Evolution” National Science Foundation. Co-PI share: **\$49,262**. Award total: \$343,975.

Matt Huenerfauth, PI, Vicki L. Hanson, co-PI, Stephanie Ludi, PI for subcontract to University of North Texas. January 2016 to August 2021. “CCE STEM: Ethical Inclusion of People with Disabilities through Undergraduate Computing Education.” National Science Foundation. Amount of funding: **\$449,987**.

Thomas Pederson (key personnel), Jose Font (key personnel), Cecilia Alm (key personnel), Pengcheng Shi (key personnel), Alberto Alvarez (participant), Johan Salo (participant), Reynold Bailey (participant), Joe Geigel (participant), Matt Huenerfauth (participant), Kristen Shinohara (participant), Jeff Pelz (participant), Sebastian Hastrup (participant). January 2020 to December 2020. "Boosting HCI - Growing end user digitalisation

research at Malmö University by prototyping and piloting a framework for graduate student lab visits at RIT." Swedish Foundation for International Cooperation in Research and Higher Education, STINT Initiation Grant. Award total: 149,999 Euro.

Matt Huenerfauth, PI. September 2014 to August 2020. "CHS: Medium: Collaborative Research: Immediate Feedback to Support Learning American Sign Language through Multisensory Recognition." National Science Foundation, CISE Directorate, IIS Division. Amount of funding: **\$537,997**.

- Collaborative research project, linked to corresponding NSF research grants to YingLi Tian, P.I., City College, \$557,918 and to Elaine Gale, P.I., Hunter College, \$104,000. Overall project total: \$1,199,915.

Larwan Berke (student fellowship recipient), Matt Huenerfauth (faculty advisor). September 2017 to August 2020. National Science Foundation Graduate Research Fellowship (NSF-GRF) to Larwan Berke. Amount of funding: Tuition and stipend for three years, approximate value: **\$138,000**.

Matt Huenerfauth (PI). April 2019 to March 2020. "Predicting the Importance of Words in Spoken Messages." Microsoft Artificial Intelligence for Accessibility (AI4A) grant program. Award total: **\$15,000**.

Matt Huenerfauth (PI, replacement for original PI Dan Ashbrook). March 2015 to February 2019. "CRII: CHS: Augmented Fabrication for Non-Expert Users of Digital Fabrication Systems." National Science Foundation. Award total: **\$190,995**.

Matt Huenerfauth (PI). February 2017 to February 2018. Identifying the Best Methods for Displaying Word-Confidence in Automatically Generated Captions for Deaf and Hard-of-Hearing Users. Google Faculty Research Awards Program. Amount of funding: **\$56,902**.

Joseph Bochner (PI), Vince Samar (co-PI), Emily Prud'hommeaux (co-PI), Matt Huenerfauth (co-PI). July 2017 to June 2018. Auditory Experience, Critical Periods and the Development of Categorical Perception in Cochlear Implant Users: A Preliminary Investigation. Hearing Health Foundation. Amount of funding: **\$23,616**.

Matt Huenerfauth, PI. July 2011 to June 2016. "Generating Accurate Understandable Sign Language Animations Based on Analysis of Human Signing." National Science Foundation, CISE Directorate, IIS Division. Amount of original funding: **\$338,005**. Amount transferred to RIT in November 2014: \$59,964.

- Additional **\$21,000** of supplemental funding from NSF Research Experiences for Undergraduates program.
- Collaborative research project, linked to corresponding NSF research grants to Carol Neidle, P.I., Boston University, for \$385,957 and to Dimitris Metaxas, P.I., Rutgers University, for \$469,996. Overall project total: \$1,214,958.

Matt Huenerfauth, PI. June 2008 to May 2014. "CAREER: Learning to Generate American Sign Language Animation through Motion-Capture and Participation of Native ASL Signers." National Science Foundation, Faculty Early Career Development (CAREER) Award Program, CISE Directorate, IIS Division, HCC Cluster. Amount of funding: **\$581,496**.

- Additional **\$37,000** of supplemental funding from NSF Research Experiences for Undergraduates program.

Matt Huenerfauth, PI. April 2010 to March 2010. "Doctoral Consortium for ASSETS 2010." National Science Foundation, CISE Directorate, IIS Division. Amount of funding: **\$27,155**.

Matt Huenerfauth, PI. June 2007 to June 2011. "Generating Animations of American Sign Language." Go PLM Academic Grant Program. Siemens A&D UGS PLM Software. Amount: **\$633,150**.

University-Internal Research Funding (2014-Present, Rochester Institute of Technology)

Joseph Bochner (PI), Vince Samar (co-PI), Matt Huenerfauth (Mentor). September 2019 to September 2021. "Categorical Perception in American Sign Language: A Preliminary Investigation." Scholarship Portfolio Development Initiative (SPDI), National Technical Institute for the Deaf, Rochester Institute of Technology. Amount: \$13,800.

Matt Huenerfauth (PI). January 2017 to December 2017. "Building a Model of Word Importance in ASR Output." National Technical Institute for the Deaf, Rochester Institute of Technology. Amount: \$33,000.

Matt Dye (PI), Matt Huenerfauth (Mentor), Kim Kurz (Other Personnel). March 2016 to August 2017. "Validity of Avatar Stimuli for Psycholinguistic Research on ASL." Scholarship Portfolio Development Initiative (SPDI), National Technical Institute for the Deaf, Rochester Institute of Technology. Amount: \$10,000.

Emily Prud'hommeaux (PI), Joseph Bochner (co-PI), Matt Huenerfauth (co-PI), and Vincent Samar (co-PI). June 2016 to May 2017. "Development of categorical perception in sign and speech: preliminary investigations." AdvanceRIT Connect Grants Program. Amount: \$4,620.

Matt Huenerfauth, Joseph Bochner, Emily Prud'hommeaux, Vincent Samar, PIs. January 2016 to January 2018. "Development of Categorical Perception in Sign and Speech: Preliminary Investigations." Research Seed Funding, Golisano College of Computing and Information Sciences, Rochester Institute of Technology. Amount: \$10,000.

Matt Huenerfauth and Michael Stinson, PIs. September 2015 to August 2017. "Creating the Next Generation of Live-Captioning Technologies." Internal Seed Research Funding, Office of the President, National Technical Institute for the Deaf, Rochester Institute of Technology. Amount: \$200,568.

University-Internal Research Funding (2007-2014, City University of New York)

Matt Huenerfauth, PI. January 2013 to December 2013. "Sign Language Eye-tracking Data Analysis and Distribution." Graduate Investment Initiative, Round 16, CUNY Queens College. Amount: \$20,000.

Matt Huenerfauth, PI. January 2012 to December 2012. "Sign Language Video Analysis for Generating Realistic ASL Animation." Graduate Investment Initiative, Round 15, CUNY Queens College. Amount: \$20,000.

Andrew Rosenberg, PI. Matt Huenerfauth, co-PI. December 2009 to December 2010. "Generating Expressive Cued Speech from Audio Speech Signals." Research Enhancement Committee, CUNY Queens College. Amount: \$12,800.

Matt Huenerfauth, PI. December 2008 to December 2009. "Text readability software for adults with intellectual disabilities." Research Enhancement Committee, CUNY Queens College. Amount: \$10,000.

Award to Computer Science Department (participating faculty: Jinlin Chen, Matt Huenerfauth, Christopher Vickery). 2009. "Eye-Tracking Analysis for User Interface Design." Graduate Investment Initiative, Round 12, CUNY Queens College. Amount: \$30,000.

Matt Huenerfauth, PI. July 2008 to December 2009. "Educational Software for Deaf Users." Professional Staff Congress – CUNY (PSC-CUNY) Research Award Program, Regular-Cycle Round 39. Amount: \$3,800.

Matt Huenerfauth, PI. July 2007 to December 2008. "Evaluating Parameters for American Sign Language Animations." Professional Staff Congress – CUNY (PSC-CUNY) Research Award Program, Out-Of-Cycle Round 38. Amount: \$4,095.

Peer-Refereed Journal Articles

[J.27] Elahe Vahdani, Longlong Jing, Matt Huenerfauth, and Yingli Tian, Multi-Modal Multi-Channel American Sign Language Recognition, International Journal of Artificial Intelligence and Robotics Research, Accepted in November 2023. (To Appear)

[J.26] Joseph Bochner, Vincent Samar, Emily Prud'hommeaux, and Matt Huenerfauth. 2022. "Phoneme Categorization in Prelingually Deaf Adult Cochlear Implant Users." Journal of Speech, Language, and Hearing Research, Volume 65, pages 4429–4453, November 2022. https://doi.org/10.1044/2022_JSLHR-22-00038

[J.25] Oliver Alonzo, Lisa Elliot, Becca Dingman, Sooyeon Lee, Akhter Al Amin, and Matt Huenerfauth. 2022. "Reading-Assistance Tools Among Deaf and Hard-of-Hearing Computing Professionals in the U.S.: Their Reading Experiences, Interests and Perceptions of Social Accessibility." ACM Transactions on Accessible Computing, 15, 2, Article 16 (June 2022), 31 pages. <https://doi.org/10.1145/3520198>

- [J.24] Sushant Kafle, Becca Dingman, Matt Huenerfauth. 2021. “Deaf and Hard-of-Hearing Users Evaluating Designs for Highlighting Key Words in Educational Lecture Videos.” *ACM Transactions on Accessible Computing*, 14, 4, Article 20 (December 2021), 24 pages. DOI: <https://doi.org/10.1145/3470651>
- [J.23] Saad Hassan, Oliver Alonzo, Abraham Glasser, and Matt Huenerfauth. 2021. “Effect of Sign-recognition Performance on the Usability of Sign-language Dictionary Search.” *ACM Transactions on Accessible Computing*, 14, 4, Article 18 (December 2021), 33 pages. DOI: <https://doi.org/10.1145/3470650>
- [J.22] Danielle Bragg, Naomi Caselli, Julie A. Hochgesang, Matt Huenerfauth, Leah Katz-Hernandez, Oscar Koller, Raja Kushalnagar, Christian Vogler, Richard E. Ladner. 2021. “The FATE Landscape of Sign Language AI Datasets: An Interdisciplinary Perspective.” *ACM Transactions on Accessible Computing*, 14, 2, Article 7 (July 2021), 45 pages. DOI: <https://doi.org/10.1145/3436996>
- [J.21] Paula Conn, Taylor Gotfrid, Qiwen Zhao, Rachel Celestine, Vaishnavi Manish Mande, Kristen Shinohara, Stephanie Ludi, Matt Huenerfauth. 2020. “Understanding the Motivations of Final-Year Computing Undergraduates for Considering Accessibility.” *ACM Transactions on Computing Education* 20, 2, Article 15 (May 2020), 22 pages. DOI: <https://doi.org/10.1145/3381911>
- [J.20] Jessica Li, Matt Luetzgen, Matt Huenerfauth, Sedeeq Al-khazraji, Reynold Bailey, Cecilia O. Alm. 2020. “Gaze Guidance for Captioned Videos for DHH Users.” *Journal on Technology and Persons with Disabilities*, Volume 8, California State University, Northridge. <http://scholarworks.csun.edu/handle/10211.3/125007>
- [J.19] Sushant Kafle and Matt Huenerfauth. 2019. “Predicting the Understandability of Imperfect English Captions for People Who Are Deaf or Hard of Hearing.” *ACM Transactions on Accessible Computing* 12, 2, Article 7 (June 2019), 32 pages. DOI: <https://doi.org/10.1145/3325862>
- [J.18] Larwan Berke, Matt Huenerfauth, and Kasmira Patel. 2019. “Design and Psychometric Evaluation of American Sign Language Translations of Usability Questionnaires.” *ACM Transactions on Accessible Computing* 12, 2, Article 6 (June 2019), 43 pages. DOI: <https://doi.org/10.1145/3314205>
- [J.17] Abhishek Mhatre, Sedeeq Al-khazraji, Matt Huenerfauth. 2019. “Evaluating Sign Language Animation through Models of Eye Movements.” *Journal on Technology and Persons with Disabilities*, Volume 7, California State University, Northridge. <http://hdl.handle.net/10211.3/210390>
- [J.16] Jigar Gohel, Sedeeq Al-khazraji, Matt Huenerfauth. 2018 “Modeling the Use of Space for Pointing in American Sign Language Animation.” *Journal on Technology and Persons with Disabilities*, Volume 6, California State University, Northridge. <http://hdl.handle.net/10211.3/202988>
- [J.15] Hernisa Kacorri, Matt Huenerfauth, Sarah Ebling, Kasmira Patel, Kellie Menzies, Mackenzie Willard. 2017. “Regression Analysis of Demographic and Technology Experience Factors Influencing Acceptance of Sign Language Animation.” *ACM Transactions on Accessible Computing*, 10, 1, Article 3 (April 2017), 33 pages. DOI: <https://doi.org/10.1145/3046787>
- [J.14] Matt Huenerfauth, Elaine Gale, Brian Penly, Sree Pillutla, Mackenzie Willard, Dhananjai Hariharan. 2017. “Evaluation of Language Feedback Methods for Student Videos of American Sign Language.” *ACM Transactions on Accessible Computing*, 10, 1, Article 2 (April 2017), 30 pages. DOI: <https://doi.org/10.1145/3046788>
- [J.13] Kevin Rathbun, Larwan Berke, Christopher Caulfield, Michael Stinson, Matt Huenerfauth. 2017. “Eye Movements of Deaf and Hard of Hearing Viewers of Automatic Captions.” *Journal on Technology and Persons with Disabilities*, Volume 5, California State University, Northridge. <http://hdl.handle.net/10211.3/190208>
- [J.12] Matt Huenerfauth, Hernisa Kacorri. 2016. “Eyetracking Metrics Related to Subjective Assessments of ASL Animations.” *Journal on Technology and Persons with Disabilities*, Volume 4, pp. 69-78, California State University, Northridge. <http://hdl.handle.net/10211.3/180115>
- [J.11] Matt Huenerfauth, Hernisa Kacorri. 2015. “Best Practices for Conducting Evaluations of Sign Language Animation.” *Journal on Technology and Persons with Disabilities*, Volume 3, September 2015, California State University, Northridge. <http://hdl.handle.net/10211.3/151184>

- [J.10] Pengfei Lu, Matt Huenerfauth. 2014. “Collecting and Evaluating the CUNY ASL Corpus for Research on American Sign Language Animation.” *Computer Speech & Language*. Volume 28, Issue 3, May 2014, Pages 812–831. Elsevier. DOI: <https://doi.org/10.1016/j.csl.2013.10.004>
- [J.9] Hernisa Kacorri, Pengfei Lu, Matt Huenerfauth. 2013. “Effect of Displaying Human Videos During an Evaluation Study of American Sign Language Animation.” *ACM Transactions on Accessible Computing*. Volume 5, Issue 2, Article 4 (October 2013), 31 pages. DOI: <https://doi.org/10.1145/2517038>
- [J.8] Matt Huenerfauth, Pengfei Lu. 2012. “Effect of Spatial Reference and Verb Inflection on the Usability of American Sign Language Animations.” *Universal Access in the Information Society*: Volume 11, Issue 2 (June 2012), pages 169-184. DOI: <https://doi.org/10.1007/s10209-011-0247-7>.
- [J.7] Pengfei Lu, Matt Huenerfauth. 2011. “Data-Driven Synthesis of Spatially Inflected Verbs for American Sign Language Animation.” *ACM Transactions on Accessible Computing*. Volume 4, Issue 1, Article 4 (November 2011), 29 pages. DOI: <https://doi.org/10.1145/2039339.2039343>
- [J.6] Matt Huenerfauth, Pengfei Lu. 2010. “Accurate and Accessible Motion-Capture Glove Calibration for Sign Language Data Collection.” *ACM Transactions on Accessible Computing*, Volume 3, Number 1, Article 2. New York: ACM Press. 32 pages. DOI: <https://doi.org/10.1145/1838562.1838564>
- [J.5] Matt Huenerfauth. 2009. “A Linguistically Motivated Model for Speed and Pausing in Animations of American Sign Language.” *ACM Transactions on Accessible Computing*. Volume 2, Number 2, Article 9, New York: ACM Press, Pages 1-31. DOI: <https://doi.org/10.1145/1530064.1530067>
- [J.4] Matt Huenerfauth. 2008. “Spatial, Temporal, and Semantic Models for American Sign Language Generation: Implications for Gesture Generation” *International Journal of Semantic Computing*. Volume 2, Number 1, Hackensack, NJ: World Scientific Publishing, pp. 21-45. DOI: <https://doi.org/10.1142/S1793351X08000336>
- [J.3] Matt Huenerfauth, Liming Zhou, Erdan Gu and Jan Allbeck. 2008. “Evaluation of American Sign Language Generation by Native ASL Signers.” *ACM Transactions on Accessible Computing*. Volume 1, Number 1 Article 3, New York: ACM Press, pp. 1-27. DOI: <https://doi.org/10.1145/1361203.1361206>
- [J.2] Matt Huenerfauth. 2008. “Generating American Sign Language animation: overcoming misconceptions and technical challenges.” *Universal Access in the Information Society*, Volume 6, Number 4, Berlin/Heidelberg: Springer, pp. 419-434. DOI: <https://doi.org/10.1007/s10209-007-0095-7>
- [J.1] Matt Huenerfauth. 2006. “Representing Coordination and Non-Coordination in an American Sign Language Animation.” *Behaviour and Information Technology*, Volume 25, Issue 4, London, UK: Taylor & Francis, pp. 285-295. DOI: <https://doi.org/10.1080/01449290600636769>

Book Chapters (Most chapters were peer-reviewed conference papers, as indicated for each below.)

- [C.15] Akher Al Amin, Joseph Mendis, Raja Kushalnagar, Christian Vogler, Sooyeon Lee, and Matt Huenerfauth. 2022. Deaf and Hard of Hearing Viewers’ Preference for Speaker Identifier Type in Live TV Programming. In *Universal Access in Human-Computer Interaction. Novel Design Approaches and Technologies: 16th International Conference, UAHCI 2022, Held as Part of the 24th HCI International Conference, HCII 2022, Virtual Event, June 26 – July 1, 2022, Proceedings, Part I*. Springer-Verlag, Berlin, Heidelberg, 200–211. https://doi.org/10.1007/978-3-031-05028-2_13 [peer-reviewed conference paper, published as book chapter]
- [C.14] Akhter Al Amin, Joseph Mendis, Raja Kushalnagar, Christian Vogler, Sooyeon Lee, Matt Huenerfauth. 2022 (to appear). “Deaf and Hard of Hearing Viewers’ Preference for Speaker Identifier Type in Live TV Programming.” In: Antona M., Stephanidis C. (eds) *Universal Access in Human-Computer Interaction. Lecture Notes in Computer Science*. [peer-reviewed conference paper, published as book chapter]
- [C.13] Akhter Al Amin, Abraham Glasser, Raja Kushalnagar, Christian Vogler, Matt Huenerfauth. 2021. “Preferences of Deaf or Hard of Hearing Users for Live-TV Caption Appearance.” In: Antona M., Stephanidis C. (eds) *Universal Access in Human-Computer Interaction. Access to Media, Learning and Assistive Environments. HCII 2021. Lecture Notes in Computer Science*, vol 12769. Springer, Cham.

https://doi.org/10.1007/978-3-030-78095-1_15 [peer-reviewed conference paper, published as book chapter]

- [C.12] Akhter Al Amin, Saad Hassan, Matt Huenerfauth. 2021. "Effect of Occlusion on Deaf and Hard of Hearing Users' Perception of Captioned Video Quality." In: Antona M., Stephanidis C. (eds) *Universal Access in Human-Computer Interaction. Access to Media, Learning and Assistive Environments. HCII 2021. Lecture Notes in Computer Science*, vol 12769. Springer, Cham. https://doi.org/10.1007/978-3-030-78095-1_16 [peer-reviewed conference paper, published as book chapter]
- [C.11] Peter Yeung, Oliver Alonzo, Matt Huenerfauth. 2020. "Interest and Requirements for Sound-Awareness Technologies among Deaf and Hard-of-Hearing Users of Assistive Listening Devices." In: Antona M., Stephanidis C. (eds) *Universal Access in Human-Computer Interaction. Applications and Practice. HCII 2020. Lecture Notes in Computer Science*, vol 12189. Springer, Cham. https://doi.org/10.1007/978-3-030-49108-6_11 [peer-reviewed conference paper, published as book chapter]
- [C.10] Abhishek Kannekanti, Sedeeq Al-khazraji, and Matt Huenerfauth. 2019. "Design and Evaluation of a User-Interface for Authoring Sentences of American Sign Language Animation." In: Antona M., Stephanidis C. (eds) *Universal Access in Human-Computer Interaction. Theory, Methods and Tools. HCII 2019. Lecture Notes in Computer Science*, vol 11572, pp. 258-267. Springer, Cham. DOI: https://doi.org/10.1007/978-3-030-23560-4_19 [peer-reviewed conference paper, published as book chapter]
Conference Award: Best Paper Award, UAHCI 2019.
- [C.9] Utsav Shah, Matthew Seita, and Matt Huenerfauth. 2019. "Evaluation of User-Interface Designs for Educational Feedback Software for ASL Students." In: Antona M., Stephanidis C. (eds) *Universal Access in Human-Computer Interaction. Theory, Methods and Tools. HCII 2019. Lecture Notes in Computer Science*, vol 11572, pp. 507-525. Springer, Cham. DOI: https://doi.org/10.1007/978-3-030-23560-4_37 [peer-reviewed conference paper, published as book chapter]
- [C.8] Dhananjai Hariharan, Sedeeq Al-khazraji, Matt Huenerfauth. 2018. "Evaluation of an English Word Look-Up Tool for Web-Browsing with Sign Language Video for Deaf Readers." In: Antona M., Stephanidis C. (eds) *Universal Access in Human-Computer Interaction. Methods, Technologies, and Users. UAHCI 2018. Lecture Notes in Computer Science*, vol 10907, pp. 205-215. Springer, Cham. DOI: https://doi.org/10.1007/978-3-319-92049-8_15 [peer-reviewed conference paper, published as chapter]
- [C.7] Hernisa Kacorri, Matt Huenerfauth. 2015. "Comparison of Finite-Repertoire and Data-Driven Facial Expressions for Sign Language Avatars." In: Antona M., Stephanidis C. (eds) *Universal Access in Human-Computer Interaction. Access to Interaction. UAHCI 2015. Lecture Notes in Computer Science*, vol 9176, pp. 393-403. Springer, Cham. DOI: https://doi.org/10.1007/978-3-319-20681-3_37 [peer-reviewed conference paper, published as book chapter]
- [C.6] Hernisa Kacorri, Allen Harper, Matt Huenerfauth. 2014. "Measuring the Perception of Facial Expressions in American Sign Language Animations with Eye Tracking." In: Stephanidis C., Antona M. (eds) *Universal Access in Human-Computer Interaction. Design for All and Accessibility Practice. UAHCI 2014. Lecture Notes in Computer Science*, vol 8516, pp. 549-559. Springer, Cham. DOI: https://doi.org/10.1007/978-3-319-07509-9_52 [peer-reviewed conference paper, published as chapter]
- [C.5] Hernisa Kacorri, Pengfei Lu, Matt Huenerfauth. 2013. "Evaluating Facial Expressions in American Sign Language Animations for Accessible Online Information." In: Stephanidis C., Antona M. (eds) *Universal Access in Human-Computer Interaction. Design Methods, Tools, and Interaction Techniques for eInclusion. UAHCI 2013. Lecture Notes in Computer Science*, vol 8009, pp. 510-519. Springer, Berlin, Heidelberg. DOI: https://doi.org/10.1007/978-3-642-39188-0_55 [peer-reviewed conference paper, published as book chapter]
- [C.4] Pengfei Lu, Matt Huenerfauth. 2011. "Collecting an American Sign Language Corpus through the Participation of Native Signers." In: Stephanidis C. (eds) *Universal Access in Human-Computer Interaction. Applications and Services. UAHCI 2011. Lecture Notes in Computer Science*, vol 6768, pp. 81-90. Springer, Berlin, Heidelberg. DOI: https://doi.org/10.1007/978-3-642-21657-2_9 [peer-reviewed conference paper, published as book chapter]

- [C.3] Matt Huenerfauth. 2010. "Representing American Sign Language Classifier Predicates Using Spatially Parameterized Planning Templates." In M.T. Banich and D. Caccamise (eds.), *Generalization of Knowledge: Multidisciplinary Perspectives*, pp. 157-174. New York: Psychology Press.
- [C.2] Matt Huenerfauth. 2009. "Improving Spatial Reference in American Sign Language Animation through Data Collection from Native ASL Signers." In: Stephanidis C. (eds) *Universal Access in Human-Computer Interaction. Applications and Services. UAHCI 2009. Lecture Notes in Computer Science*, vol 5616, pp. 530-539. Springer, Berlin, Heidelberg. DOI: https://doi.org/10.1007/978-3-642-02713-0_56 [peer-reviewed conference paper, published as book chapter]
- [C.1] Matt Huenerfauth and Vicki L. Hanson. 2009. "Sign Language in the Interface: Access for Deaf Signers." In C. Stephanidis (ed.), *The Universal Access Handbook*, pp. 619-636. Mahwah, NJ: Lawrence Erlbaum.

Peer-Refereed Papers, published in Conference Proceedings

- [P.88] Caluã de Lacerda Pataca, Matthew Watkins, Roshan Peiris, Sooyeon Lee, and Matt Huenerfauth. 2023. Visualization of Speech Prosody and Emotion in Captions: Accessibility for Deaf and Hard-of-Hearing Users. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*. Association for Computing Machinery, New York, NY, USA, Article 831, 1–15. <https://doi.org/10.1145/3544548.3581511> [28% paper acceptance rate]
- [P.87] Akhter Al Amin, Saad Hassan, Matt Huenerfauth, and Cecilia Ovesdotter Alm. 2023. Modeling Word Importance in Conversational Transcripts: Toward improved live captioning for Deaf and hard of hearing viewers. In *Proceedings of the 20th International Web for All Conference (W4A '23)*. Association for Computing Machinery, New York, NY, USA, 79–83. <https://doi.org/10.1145/3587281.3587290>
- [P.86] Akhter Al Amin, Saad Hassan, Sooyeon Lee, and Matt Huenerfauth. 2023. Understanding How Deaf and Hard of Hearing Viewers Visually Explore Captioned Live TV News. In *Proceedings of the 20th International Web for All Conference (W4A '23)*. Association for Computing Machinery, New York, NY, USA, 54–65. <https://doi.org/10.1145/3587281.3587287>
- [P.85] Akhter Al Amin, Joseph Mendis, Raja Kushalnagar, Christian Vogler, and Matt Huenerfauth. 2023. Who is speaking: Unpacking In-text Speaker Identification Preference of Viewers who are Deaf and Hard of Hearing while Watching Live Captioned Television Program. In *Proceedings of the 20th International Web for All Conference (W4A '23)*. Association for Computing Machinery, New York, NY, USA, 44–53. <https://doi.org/10.1145/3587281.3587286>
Conference Award: Best Paper Award Nominee, W4A 2023.
- [P.84] Oliver Alonzo, Sooyeon Lee, Mounica Maddela, Wei Xu, Matt Huenerfauth. 2022. "A Dataset of Word-Complexity Judgements from Deaf and Hard-of-Hearing Adults for Text Simplification." In *Proceedings of the Workshop on Text Simplification, Accessibility, and Readability (TSAR-2022)*, The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP 2022).
- [P.83] Saad Hassan, Sooyeon Lee, Dimitris Metaxas, Carol Neidle, and Matt Huenerfauth. 2022. "Understanding ASL Learners' Preferences for a Sign Language Recording and Automatic Feedback System to Support Self-Study." In *Proceedings of the 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '22)*. Association for Computing Machinery, New York, NY, USA, Article 85, 1–5. <https://doi.org/10.1145/3517428.3550367>
- [P.82] Saad Hassan, Akhter Al Amin, Caluã de Lacerda Pataca, Diego Navarro, Alexis Gordon, Sooyeon Lee, and Matt Huenerfauth. 2022. "Support in the Moment: Benefits and use of video-span selection and search for sign-language video comprehension among ASL learners." In *Proceedings of the 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '22)*. Association for Computing Machinery, New York, NY, USA, Article 29, 1–14. <https://doi.org/10.1145/3517428.3544883>
Conference Award: Best Paper Nominee (top 5% of submissions), ASSETS 2022.
- [P.81] Saad Hassan, Matthew Seita, Larwan Berke, Yingli Tian, Elaine Gale, Sooyeon Lee, Matt Huenerfauth. 2022. "ASL-Homework-RGBD Dataset: An annotated dataset of 45 fluent and non-fluent signers performing American Sign Language homeworks." In *Proceedings of the LREC2022 10th Workshop on the*

Representation and Processing of Sign Languages: Multilingual Sign Language Resources, at the Language Resources and Evaluation Conference (LREC 2022).

- [P.80] Zhaoyang Xia, Yuxiao Chen, Qilong Zhangli, Matt Huenerfauth, Carol Neidle, Dimitris Metaxas. 2022. “Sign Language Video Anonymization.” In *Proceedings of the LREC2022 10th Workshop on the Representation and Processing of Sign Languages: Multilingual Sign Language Resources*, at the Language Resources and Evaluation Conference (LREC 2022).
- [P.79] Akhter Al Amin, Saad Hassan, Cecilia Alm, Matt Huenerfauth. 2022. “Using BERT Embeddings to Model Word Importance in Conversational Transcripts for Deaf and Hard of Hearing Users.” The Second Workshop on Language Technology for Equality, Diversity and Inclusion (LT-EDI), at the 60th Annual Meeting of the Association for Computational Linguistics (ACL 2022), Association for Computational Linguistics. Pages 35-40. <https://aclanthology.org/2022.ltedi-1.5> DOI: 10.18653/v1/2022.ltedi-1.5
- [P.78] Matthew Seita, Sooyeon Lee, Sarah Andrew, Kristen Shinohara, Matt Huenerfauth. 2022. Remotely Co-Designing Features for Communication Applications using Automatic Captioning with Deaf and Hearing Pairs. In *Proceedings of the CHI Conference on Human Factors in Computing Systems Proceedings (CHI '22)*. Association for Computing Machinery, New York, NY, USA, DOI: <https://doi.org/10.1145/3491102.3501843> [26% paper acceptance rate]
Conference Award: Honorable Mention for Best Paper (top 5% of submissions), CHI 2022.
- [P.77] Akhter Al Amin, Saad Hassan, Sooyeon Lee, Matt Huenerfauth. 2022. “Watch It, Don't Imagine It: Creating a Better Caption-Occlusion Metric by Collecting More Ecologically Valid Judgments from DHH Viewers.” In *Proceedings of the CHI Conference on Human Factors in Computing Systems Proceedings (CHI '22)*. Association for Computing Machinery, New York, NY, USA. DOI: <https://doi.org/10.1145/3491102.3517681> [26% paper acceptance rate]
- [P.76] Saad Hassan, Akhter Al Amin, Alexis Gordon, Sooyeon Lee, Matt Huenerfauth. 2022. Design and Evaluation of Hybrid Search for American Sign Language to English Dictionaries: Making the Most of Imperfect Sign Recognition. In *Proceedings of the CHI Conference on Human Factors in Computing Systems Proceedings (CHI '22)*. Association for Computing Machinery, New York, NY, USA, DOI: <https://doi.org/10.1145/3491102.3501986> [26% paper acceptance rate]
- [P.75] Abraham Glasser, Matthew Watkins, Kira Hart, Sooyeon Lee, Matt Huenerfauth. 2022. Analyzing Deaf and Hard-of-Hearing Users' Behavior, Usage, and Interaction with a Personal Assistant Device that Understands Sign-Language Input. In *Proceedings of the CHI Conference on Human Factors in Computing Systems Proceedings (CHI '22)*. Association for Computing Machinery, New York, NY, USA, DOI: <https://doi.org/10.1145/3491102.3501987> [26% paper acceptance rate]
- [P.74] Oliver Alonzo, Jessica Trussell, Matthew Watkins, Sooyeon Lee, Matt Huenerfauth. 2022. “Methods for Evaluating the Fluency of Automatically Simplified Texts with Deaf and Hard-of-Hearing Adults at Various Literacy Levels.” In *Proceedings of the CHI Conference on Human Factors in Computing Systems Proceedings (CHI '22)*. Association for Computing Machinery, New York, NY, USA. DOI: <https://doi.org/10.1145/3491102.3517566> [26% paper acceptance rate]
- [P.73] Saad Hassan, Matt Huenerfauth, Cecilia Ovesdotter Alm. 2021. “Unpacking the Interdependent Systems of Discrimination: Ableist Bias in NLP Systems through an Intersectional Lens.” In *Findings of the Association for Computational Linguistics: EMNLP 2021*, Punta Cana, Dominican Republic, November 2021. Pages 3116-3123. Association for Computational Linguistics. <https://aclanthology.org/2021.findings-emnlp.267> [34.9% aggregate acceptance rate for EMNLP and Findings of EMNLP]
- [P.72] Sooyeon Lee, Abraham Glasser, Becca Dingman, Zhaoyang Xia, Dimitris Metaxas, Carol Neidle, Matt Huenerfauth. 2021. “American Sign Language Video Anonymization to Support Online Participation of Deaf and Hard of Hearing Users.” In *The 23rd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'21)*. Association for Computing Machinery, New York, NY, USA, Article 22, 1–13. DOI: <https://doi.org/10.1145/3441852.3471200>. [29% paper acceptance rate]
Conference Award: Best Paper Nominee (top 7% of submissions), ASSETS 2021.
- [P.71] Sedeeq Al-khazraji, Becca Dingman, Sooyeon Lee, Matt Huenerfauth. 2021. “At a Different Pace: Evaluating Whether Users Prefer Timing Parameters in American Sign Language Animations to Differ

- from Human Signers' Timing." In *The 23rd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'21)*. Association for Computing Machinery, New York, NY, USA, Article 40, 1–12. DOI: <https://doi.org/10.1145/3441852.3471214> [29% paper acceptance rate]
- [P.70] Oliver Alonzo, Jessica Trussell, Becca Dingman, Matt Huenerfauth. 2021. "Comparison of Methods for Evaluating Complexity of Simplified Texts among Deaf and Hard-of-Hearing Adults at Different Literacy Levels." In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems (CHI '21)*. Association for Computing Machinery, New York, NY, USA, Article 279, 1–12. DOI: <https://doi.org/10.1145/3411764.3445038> [23% paper acceptance rate]
- [P.69] Vaishnavi Mande, Abraham Glasser, Becca Dingman, Matt Huenerfauth. 2021. "Deaf Users' Preferences Among Wake-Up Approaches during Sign-Language Interaction with Personal Assistant Devices." In *Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems. Association for Computing Machinery (CHI '21)*, New York, NY, USA, Article 370, 1–6. DOI: <https://doi.org/10.1145/3411763.3451592> [27% paper acceptance rate]
- [P.68] Abraham Glasser, Vaishnavi Mande, Matt Huenerfauth. 2021. "Understanding Deaf and Hard-of-Hearing Users' Interest in Sign-Language Interaction with Personal-Assistant Devices." In *Proceedings of the 18th International Web for All Conference (W4A '21)*. ACM, New York, NY, USA. DOI: <https://doi.org/10.1145/3430263.3452428> [53% paper acceptance rate]
- [P.67] Akhter Al Amin, Saad Hassan, Matt Huenerfauth. 2021. "Caption-Occlusion Severity Judgments across Live-Television Genres from Deaf and Hard-of-Hearing Viewers." In *Proceedings of the 18th International Web for All Conference (W4A '21)*. ACM, New York, NY, USA. DOI: <https://doi.org/10.1145/3430263.3452429> [53% paper acceptance rate]
- [P.66] Matthew Seita, Sarah Andrew, Matt Huenerfauth. 2021. "Deaf and Hard-of-Hearing Users' Preferences for Hearing Speakers' Behavior during Technology-Mediated In-Person and Remote Conversations." In *Proceedings of the 18th International Web for All Conference (W4A '21)*. ACM, New York, NY, USA. DOI: <https://doi.org/10.1145/3430263.3452430> [53% paper acceptance rate]
- [P.65] Oliver Alonzo, Lisa Elliot, Becca Dingman, and Matt Huenerfauth. 2020. "Reading Experiences and Interest in Reading-Assistance Tools Among Deaf and Hard-of-Hearing Computing Professionals." In *The 22nd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '20)*. Association for Computing Machinery, New York, NY, USA, Article 45, 1–13. DOI: <https://doi.org/10.1145/3373625.3416992> [28% paper-acceptance rate]
- [P.64] Qiwen Zhao, Vaishnavi Mande, Paula Conn, Sedeeq Al-khazraji, Kristen Shinohara, Stephanie Ludi, and Matt Huenerfauth. 2020. "Comparison of Methods for Teaching Accessibility in University Computing Courses." In *The 22nd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '20)*. Association for Computing Machinery, New York, NY, USA, Article 6, 1–12. DOI: <https://doi.org/10.1145/3373625.3417013> [28% paper-acceptance rate]
- [P.63] Abraham Glasser, Vaishnavi Mande, and Matt Huenerfauth. 2020. "Accessibility for Deaf and Hard of Hearing Users: Sign Language Conversational User Interfaces." In *Proceedings of the 2nd Conference on Conversational User Interfaces (CUI '20)*. Association for Computing Machinery, New York, NY, USA, Article 55, 1–3. DOI: <https://doi.org/10.1145/3405755.3406158> [33.3% paper-acceptance rate]
- [P.62] Elahe Vahdani, Longlong Jing, Ying-li Tian, Matt Huenerfauth. 2020. "Recognizing American Sign Language Nonmanual Signal Grammar Errors in Continuous Videos." In *Proceedings of the 2020 25th International Conference on Pattern Recognition (ICPR 2020)*. [35.6% paper-acceptance rate]
- [P.61] Saad Hassan, Larwan Berke, Elahe Vahdani, Longlong Jing, Yingli Tian, Matt Huenerfauth. 2020. "An Isolated-Signing RGBD Dataset of 100 American Sign Language Signs Produced by Fluent ASL Signers." In *Proceedings of the LREC2020 9th Workshop on the Representation and Processing of Sign Languages: Sign Language Resources in the Service of the Language Community, Technological Challenges and Application Perspectives*. European Language Resources Association (ELRA), 89–94. <https://www.aclweb.org/anthology/2020.signlang-1.14>
- [P.60] Oliver Alonzo, Matthew Seita, Abraham Glasser, Matt Huenerfauth. 2020. "Automatic Text Simplification Tools for Deaf and Hard of Hearing Adults: Benefits of Lexical Simplification and Providing Users with

- Autonomy.” In *Proceedings of the 2020 ACM Conference on Human Factors in Computing Systems (CHI'20)*. New York, ACM. DOI: <https://doi.org/10.1145/3313831.3376563> [24% paper-acceptance rate]
- [P.59] Larwan Berke, Matthew Seita, Matt Huenerfauth. 2020. “Deaf and Hard-of-Hearing Users’ Prioritization of Genres of Online Video Content Requiring Accurate Captions.” In *Proceedings of the 17th International Web for All Conference - Automation for Accessibility (W4A '20)*. ACM, New York, NY, USA. DOI: <https://doi.org/10.1145/3371300.3383337> [41% paper-acceptance rate]
- [P.58] Sedeeq Al-khazraji, Becca Dingman, Matt Huenerfauth. 2020. “Empirical Investigation of Users’ Preferred Timing Parameters for American Sign Language Animations.” In *Proceedings of the 2020 ACM Conference on Human Factors in Computing Systems (CHI'20 Extended Abstracts)*. ACM, New York, NY, USA. DOI: <https://doi.org/10.1145/3334480.3382989> [41.8% paper-acceptance rate]
- [P.57] Matthew Seita, Matt Huenerfauth. 2020. “Deaf Individuals’ Views on Speaking Behaviors of Hearing Peers when Using an Automatic Captioning App.” In *Proceedings of the 2020 ACM Conference on Human Factors in Computing Systems (CHI'20 Extended Abstracts)*. ACM, New York, NY, USA. DOI: <https://doi.org/10.1145/3334480.3383083> [41.8% paper-acceptance rate]
- [P.56] Danielle Bragg, Oscar Koller, Mary Bellard, Larwan Berke, Patrick Boudreault, Annelies Braffort, Naomi Caselli, Matt Huenerfauth, Hernisa Kacorri, Tessa Verhoef, Christian Vogler, and Meredith Ringel Morris. 2019. “Sign Language Recognition, Generation, and Translation: An Interdisciplinary Perspective.” In *The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '19)*. ACM, New York, NY, USA, 16-31. DOI: <https://doi.org/10.1145/3308561.3353774> [26% paper-acceptance rate] **Conference Award: Best Paper Award, ASSETS 2019.**
- [P.55] Sushant Kafle, Peter Yeung, and Matt Huenerfauth. 2019. “Evaluating the Benefit of Highlighting Key Words in Captions for People who are Deaf or Hard of Hearing.” In *The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '19)*. ACM, New York, NY, USA, 43-55. DOI: <https://doi.org/10.1145/3308561.3353781> [26% paper-acceptance rate]
- [P.54] Oliver Alonzo, Abraham Glasser, and Matt Huenerfauth. 2019. “Effect of Automatic Sign Recognition Performance on the Usability of Video-Based Search Interfaces for Sign Language Dictionaries.” In *The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '19)*. ACM, New York, NY, USA, 56-67. DOI: <https://doi.org/10.1145/3308561.3353791> [26% paper-acceptance rate]
- [P.53] Sushant Kafle, Cecilia O. Alm, Matt Huenerfauth. 2019. “Fusion Strategy for Prosodic and Lexical Representations of Word Importance.” In *Proceedings of the 20th Annual Conference of the International Speech Communication Association (INTERSPEECH 2019)*, Graz, Austria. International Speech Communication Association. DOI: <http://dx.doi.org/10.21437/Interspeech.2019-1898>
- [P.52] Sushant Kafle, Cecilia O. Alm, Matt Huenerfauth. 2019. “Modeling Acoustic-Prosodic Cues for Word Importance Prediction in Spoken Dialogues.” In *Proceedings of the 8th Workshop on Speech and Language Processing for Assistive Technologies (SLPAT'19)*. Collocated with the 2019 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL'19). Minneapolis, Minnesota, United States, June 7, 2019. DOI: <https://doi.org/10.18653/v1/W19-1702>
- [P.51] Larwan Berke, Khaled Albusays, Matthew Seita, Matt Huenerfauth. 2019. “Preferred Appearance of Captions Generated by Automatic Speech Recognition for Deaf and Hard-of-Hearing Viewers.” In *Proceedings of the 2019 ACM Conference on Human Factors in Computing Systems (CHI'19 Extended Abstracts)*. ACM, New York, NY, USA, 6 pages. DOI: <https://doi.org/10.1145/3290607.3312921>
- [P.50] Sedeeq Al-khazraji, Larwan Berke, Sushant Kafle, Peter Yeung and Matt Huenerfauth. 2018. “Modeling the Speed and Timing of American Sign Language to Generate Realistic Animations.” In *Proceedings of the 20th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '18)*. ACM, New York, NY, USA, 259-270. DOI: <https://doi.org/10.1145/3234695.3236356> [26% acceptance rate] **Conference Award: Best Paper Award, ASSETS 2018.**
- [P.49] Matthew Seita, Khaled Albusays, Sushant Kafle, Michael Stinson and Matt Huenerfauth. 2018. “Behavioral Changes in Speakers who are Automatically Captioned in Meetings with Deaf or Hard-of-Hearing Peers.” In *Proceedings of the 20th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '18)*. ACM, New York, NY, USA , 68-80. DOI: <https://doi.org/10.1145/3234695.3236355> [26% paper-acceptance rate]

- [P.48] Yuancheng Ye, Yingli Tian, Matt Huenerfauth, and Jingya Liu. 2018. “Recognizing American Sign Language Gestures from within Continuous Videos.” In *Proceeding of the 8th IEEE International Workshop on Analysis and Modeling of Faces and Gestures (AMFG)* at CVPR 2018. DOI: <https://doi.org/10.1109/CVPRW.2018.00280>
- [P.47] Larwan Berke, Sushant Kafle, Matt Huenerfauth. 2018. “Methods for Evaluation of Imperfect Captioning Tools by Deaf or Hard-of-Hearing Users at Different Reading Literacy Levels.” In *Proceedings of the 2018 ACM Conference on Human Factors in Computing Systems (CHI'18)*. New York, ACM, Paper 91, 12 pages. DOI: <https://doi.org/10.1145/3173574.3173665> [25% paper-acceptance rate]
Conference Award: Best Paper Honorable Mention (top 5% of submissions), CHI 2018.
- [P.46] Sedeeq Al-khazraji, Sushant Kafle, Matt Huenerfauth. 2018. “Modeling and Predicting the Location of Pauses for the Generation of Animations of American Sign Language.” In *Proceedings of the 8th Workshop on the Representation and Processing of Sign Languages: Involving the Language Community, The 11th International Conference on Language Resources and Evaluation (LREC 2018)*, Miyazaki, Japan. http://lrec-conf.org/workshops/lrec2018/W1/pdf/18013_W1.pdf
- [P.45] Sushant Kafle, Matt Huenerfauth. 2018. “A Corpus for Modeling Word Importance in Spoken Dialogue Transcripts.” In *Proceedings of the 11th International Conference on Language Resources and Evaluation (LREC 2018)*, Miyazaki, Japan. <https://www.aclweb.org/anthology/L18-1016.pdf>
- [P.44] Stephanie Ludi, Matt Huenerfauth, Vicki Hanson, Nidhi Palan, and Paula Garcia. 2018. “Teaching Inclusive Thinking to Undergraduate Students in Computing Programs.” In *Proceedings of the 2018 ACM SIGCSE Technical Symposium on Computer Science Education (SIGCSE'18)*. ACM, New York, NY, USA, 717-722. DOI: <https://doi.org/10.1145/3159450.3159512> [35% paper-acceptance rate]
- [P.43] Sushant Kafle, Matt Huenerfauth. 2017. “Evaluating the Usability of Automatically Generated Captions for People who are Deaf or Hard of Hearing.” In *Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'17)*. ACM, New York, NY, USA , 165-174. DOI: <https://doi.org/10.1145/3132525.3132542> [26% paper-acceptance rate]
Conference Award: Best Paper Award, ASSETS 2017.
- [P.42] Matt Huenerfauth, Kasmira Patel, Larwan Berke. 2017. “Design and Psychometric Evaluation of an American Sign Language Translation of the System Usability Scale.” In *Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'17)*. ACM, New York, NY, USA, 175-184. DOI: <https://doi.org/10.1145/3132525.3132540> [26% paper-acceptance rate]
Conference Award: Best Paper Nominee (top 5% of submissions), ASSETS 2017.
- [P.41] Larwan Berke, Christopher Caulfield, Matt Huenerfauth. 2017. “Deaf and Hard-of-Hearing Perspectives on Imperfect Automatic Speech Recognition for Captioning One-on-One Meetings.” In *Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'17)*. ACM, New York, NY, USA, 155-164. DOI: <https://doi.org/10.1145/3132525.3132541> [26% paper-acceptance rate]
- [P.40] Khaled Albusays, Stephanie Ludi, Matt Huenerfauth. 2017. “Interviews and Observation of Blind Software Developers at Work to Understand Code Navigation Challenges.” In *Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'17)*. ACM, New York, NY, USA, 91-100. DOI: <https://doi.org/10.1145/3132525.3132550> [26% paper-acceptance rate]
- [P.39] Nidhi Palan, Matt Huenerfauth, Stephanie Ludi, Vicki Hanson. 2017. “Teaching Inclusive Thinking in Undergraduate Computing.” In *Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'17)*. ACM, New York, NY, USA, 399-400. DOI: <https://doi.org/10.1145/3132525.3134808>
- [P.38] Lisa Elliot, Michael Stinson, James Mallory, Donna Easton, Matt Huenerfauth. 2016. “Deaf and Hard of Hearing Individuals’ Perceptions of Communication with Hearing Colleagues in Small Groups.” In *Proceedings of the 18th Annual SIGACCESS Conference on Computers and Accessibility (ASSETS'16)*. ACM, New York, NY, USA, 271-272. DOI: <https://doi.org/10.1145/2982142.2982198>

- [P.37] Sushant Kafle, Matt Huenerfauth. 2016. "Effect of Speech Recognition Errors on Text Understandability for People who are Deaf or Hard of Hearing." *Proceedings of the 7th Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), INTERSPEECH 2016*, San Francisco, CA, USA. <https://scholarworks.rit.edu/other/891/>
- [P.36] Hernisa Kacorri, Matt Huenerfauth. 2016. "Selecting Exemplar Recordings of American Sign Language Non-Manual Expressions for Animation Synthesis Based on Manual Sign Timing." *Proceedings of the 7th Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), INTERSPEECH 2016*, San Francisco, CA, USA. <https://scholarworks.rit.edu/other/892/>
- [P.35] Hernisa Kacorri, Matt Huenerfauth. 2016. "Continuous Profile Models in ASL Syntactic Facial Expression Synthesis." *Proceedings of the 54rd Annual Meeting on Association for Computational Linguistics (ACL '16)*. Association for Computational Linguistics, Stroudsburg, PA, USA, pp. 2084-2093. DOI: <http://dx.doi.org/10.18653/v1/P16-1196> [28% paper-acceptance rate]
- [P.34] Chenyang Zhang, Yingli Tian, Matt Huenerfauth. 2016. "Multi-Modality American Sign Language Recognition." *Proceedings of the IEEE International Conference on Image Processing (ICIP 2016)*, Phoenix, Arizona, USA. <https://doi.org/10.1109/ICIP.2016.7532886>
- [P.33] Mark Dilsizian, Zhiqiang Tang, Dimitris Metaxas, Matt Huenerfauth, Carol Neidle. 2016. "The Importance of 3D Motion Trajectories for Computer-based Sign Recognition." *Proceedings of the 7th Workshop on the Representation and Processing of Sign Languages: Corpus Mining, The 10th International Conference on Language Resources and Evaluation (LREC 2016)*, Portoroz, Slovenia. <https://scholarworks.rit.edu/other/894/>
- [P.32] Hernisa Kacorri, Ali Raza Syed, Matt Huenerfauth, Carol Neidle. 2016. "Centroid-Based Exemplar Selection of ASL Non-Manual Expressions using Multidimensional Dynamic Time Warping and MPEG4 Features." *Proceedings of the 7th Workshop on the Representation and Processing of Sign Languages: Corpus Mining, The 10th International Conference on Language Resources and Evaluation (LREC 2016)*, Portoroz, Slovenia. <https://scholarworks.rit.edu/other/893/>
- [P.31] Hernisa Kacorri, Matt Huenerfauth, Sarah Ebling, Kasmira Patel, Mackenzie Willard. 2015. "Demographic and Experiential Factors Influencing Acceptance of Sign Language Animation by Deaf Users." *Proceedings of the 17th Annual SIGACCESS Conference on Computers and Accessibility (ASSETS'15)*. ACM, New York, NY, USA, 147-154. DOI: <https://doi.org/10.1145/2700648.2809860> [23% paper-acceptance rate]
- [P.30] Matt Huenerfauth, Elaine Gale, Brian Penly, Mackenzie Willard, Dhananjai Hariharan. 2015. "Comparing Methods of Displaying Language Feedback for Student Videos of American Sign Language." *Proceedings of the 17th Annual SIGACCESS Conference on Computers and Accessibility (ASSETS'15)*. ACM, New York, NY, USA, 139-146. DOI: <https://doi.org/10.1145/2700648.2809859> [23% paper-acceptance rate]
- [P.29] Matt Huenerfauth, Pengfei Lu, Hernisa Kacorri. 2015. "Synthesizing and Evaluating Animations of American Sign Language Verbs Modeled from Motion-Capture Data." *Proceedings of the 6th Workshop on Speech and Language Processing for Assistive Technologies (SLPAT'15), held at INTERSPEECH 2015*, Dresden, German, September 11, 2015, pp. 22-28. DOI: <http://dx.doi.org/10.18653/v1/W15-5105>
- [P.28] Hernisa Kacorri, Matt Huenerfauth. 2015. "Evaluating a Dynamic Time Warping Based Scoring Algorithm for Facial Expressions in ASL Animations." *Proceedings of the 6th Workshop on Speech and Language Processing for Assistive Technologies (SLPAT'15), held at INTERSPEECH 2015*, Dresden, German, September 11, 2015, pp. 29-35. DOI: <http://dx.doi.org/10.18653/v1/W15-5106>
- [P.27] Sarah Ebling, Matt Huenerfauth. 2015. "Bridging the Gap Between Sign Language Machine Translation and Sign Language Animation Using Sequence Classification." *Proceedings of the 6th Workshop on Speech and Language Processing for Assistive Technologies (SLPAT'15), held at INTERSPEECH 2015*, Dresden, German, September 11, 2015. pp. 2-9. DOI: <http://dx.doi.org/10.18653/v1/W15-5102>
- [P.26] Matt Huenerfauth, Hernisa Kacorri. 2015. "Augmenting EMBR Virtual Human Animation System with MPEG-4 Controls for Producing ASL Facial Expressions." *The 5th International Workshop on Sign Language Translation and Avatar Technologies (SLTAT)*, Paris, France, April 9-20, 2015.

- [P.25] Hernisa Kacorri, Matt Huenerfauth. 2014. “Implementation and Evaluation of Animation Controls Sufficient for Conveying ASL Facial Expressions.” *Proceedings of the 15th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS’14)*. ACM, New York, NY, USA, 261-262. DOI: <https://doi.org/10.1145/2661334.2661387>
- [P.24] Matt Huenerfauth, Hernisa Kacorri. 2014. “Release of Experimental Stimuli and Questions for Evaluating Facial Expressions in Animations of American Sign Language.” *Proceedings of the 6th Workshop on the Representation and Processing of Sign Languages: Beyond the Manual Channel, The 9th International Conference on Language Resources and Evaluation (LREC 2014)*, Reykjavik, Iceland.
- [P.23] Hernisa Kacorri, Allen Harper, Matt Huenerfauth. 2013. “Comparing Native Signers Perception of American Sign Language Animations and Videos via Eye Tracking.” In *Proceedings of the 15th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS ’13)*. ACM, New York, NY, USA, Article 9, 8 pages. DOI: <https://doi.org/10.1145/2513383.2513441> [29% paper-acceptance rate]
- [P.22] Pengfei Lu, Matt Huenerfauth. 2012. “Learning a Vector-Based Model of American Sign Language Inflecting Verbs from Motion-Capture Data.” In *Proceedings of the Third Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), The 2012 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT 2012)*, Montreal, Quebec, Canada. East Stroudsburg, PA: Association for Computational Linguistics. <https://www.aclweb.org/anthology/W12-2909>
- [P.21] Pengfei Lu, Matt Huenerfauth. 2012. “CUNY American Sign Language Motion-Capture Corpus: First Release.” In *Proceedings of the 5th Workshop on the Representation and Processing of Sign Languages: Interactions between Corpus and Lexicon, The 8th International Conference on Language Resources and Evaluation (LREC 2012)*, Istanbul, Turkey.
- [P.20] Pengfei Lu, Matt Huenerfauth. 2011. “Synthesizing American Sign Language Spatially Inflected Verbs from Motion-Capture Data.” In *Proceedings of The Second International Workshop on Sign Language Translation and Avatar Technology (SLTAT), The 13th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2011)*, Dundee, Scotland, United Kingdom.
- [P.19] Matt Huenerfauth, Pengfei Lu, and Andrew Rosenberg. 2011. Evaluating Importance of Facial Expression in American Sign Language and Pidgin Signed English Animations. In *The Proceedings of the 13th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS ’11)*. Association for Computing Machinery, New York, NY, USA, 99–106. DOI: <https://doi.org/10.1145/2049536.2049556> [30% paper-acceptance rate]
- [P.18] Martin Jansche, Lijun Feng, Matt Huenerfauth. 2010. “Reading Difficulty in Adults with Intellectual Disabilities: Analysis with a Hierarchical Latent Trait Model.” *The Proceedings of the 12th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS ’10)*. Association for Computing Machinery, New York, NY, USA, 277–278. DOI: <https://doi.org/10.1145/1878803.1878869> [54% paper-acceptance rate]
- [P.17] Matt Huenerfauth, Pengfei Lu. 2010. “Modeling and Synthesizing Spatially Inflected Verbs for American Sign Language Animations.” *The Proceedings of 12th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS ’10)*. Association for Computing Machinery, New York, NY, USA, 99–106. DOI: <https://doi.org/10.1145/1878803.1878823> [31% paper-acceptance rate]
- [P.16] Lijun Feng, Martin Jansche, Matt Huenerfauth, Noémie Elhadad. 2010. “A Comparison of Features for Automatic Readability Assessment.” In *Proceedings of The 23rd International Conference on Computational Linguistics (COLING 2010)*, Beijing, China, Poster Volume. East Stroudsburg, PA: Association for Computational Linguistics, pp. 276-284. <https://www.aclweb.org/anthology/C10-2032> [42% paper-acceptance rate]
- [P.15] Pengfei Lu, Matt Huenerfauth. 2010. “Collecting a Motion-Capture Corpus of American Sign Language for Data-Driven Generation Research,” In *Proceedings of the First Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), Human Language Technologies: The 11th Annual Conference of the North American Chapter of the Association for Computational Linguistics (HLT-NAACL*

- 2010), Los Angeles, CA, USA. East Stroudsburg, PA: Association for Computational Linguistics, pp. 89-97. <https://www.aclweb.org/anthology/W10-1312>
- [P.14] Matt Huenerfauth, Pengfei Lu. 2010. “Eliciting Spatial Reference for a Motion-Capture Corpus of American Sign Language Discourse,” In *Proceedings of the Fourth Workshop on the Representation and Processing of Signed Languages: Corpora and Sign Language Technologies, The 7th International Conference on Language Resources and Evaluation (LREC 2010)*, Valetta, Malta. Paris: European Language Resources Association, pp. 121-124.
- [P.13] Matt Huenerfauth, Lijun Feng, Noémie Elhadad. 2009. “Comparing Evaluation Techniques for Text Readability Software for Adults with Intellectual Disabilities.” In *Proceedings of the 11th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2009)*. Association for Computing Machinery, New York, NY, USA, 3–10. DOI: <https://doi.org/10.1145/1639642.1639646> [32% paper-acceptance rate]
- [P.12] Pengfei Lu, Matt Huenerfauth. 2009. “Accessible Motion-Capture Glove Calibration Protocol for Recording Sign Language Data from Deaf Subjects.” In *Proceedings of the 11th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2009)*, Pittsburgh, Pennsylvania, USA. New York: ACM Press, pp. 83-90. DOI: <https://doi.org/10.1145/1639642.1639658> [32% paper-acceptance rate]
- [P.11] Lijun Feng, Noemie Elhadad, Matt Huenerfauth. 2009. “Cognitively Motivated Features for Readability Assessment,” In *Proceedings of the 12th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2009)*, Athens, Greece. East Stroudsburg, PA: Association for Computational Linguistics, pp. 229-237. <https://www.aclweb.org/anthology/E09-1027> [28% paper-acceptance rate]
- [P.10] Matt Huenerfauth. 2008. “Evaluation of a Psycholinguistically Motivated Timing Model for Animations of American Sign Language.” In *Proceedings of the 10th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2008)*. Association for Computing Machinery, New York, NY, USA, 129–136. DOI: <https://doi.org/10.1145/1414471.1414496> [37% paper-acceptance rate, candidate for Best Paper Award]
- [P.9] Matt Huenerfauth, Liming Zhou, Erdan Gu and Jan Allbeck. 2007. “Evaluating American Sign Language Generation Through the Participation of Native ASL Signers.” In *Proceedings of the 9th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2007)*. Association for Computing Machinery, New York, NY, USA, 211–218. DOI: <https://doi.org/10.1145/1296843.1296879> [31% paper-acceptance rate]
Conference Award: Best Paper Award, ASSETS 2007.
- [P.8] Matt Huenerfauth, Liming Zhou, Erdan Gu and Jan Allbeck. 2007. “Design and Evaluation of an American Sign Language Generator.” In *Proceedings of the Workshop on Embodied Language Processing (EmbodiedNLP 2007), The 45th Annual Meeting of the Association for Computational Linguistics (ACL 2007)*, Prague, Czech Republic. East Stroudsburg, PA: Association for Computational Linguistics, pp. 51-58. <https://www.aclweb.org/anthology/W07-1907>
- [P.7] Matt Huenerfauth. 2005. “Representing Coordination and Non-Coordination in an American Sign Language Animation.” In *Proceedings of the 7th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2005)*. Association for Computing Machinery, New York, NY, USA, 44–51. DOI: <https://doi.org/10.1145/1090785.1090796>
Conference Award: Best Paper Award, ASSETS 2005.
- [P.6] Matt Huenerfauth. 2005. “American Sign Language Spatial Representations for an Accessible User-Interface.” In *Proceedings of the 3rd International Conference on Universal Access in Human-Computer Interaction (UAHCI 2005)*, Las Vegas, NV, USA.
- [P.5] Matt Huenerfauth. 2005. “American Sign Language Generation: Multimodal NLG with Multiple Linguistic Channels.” In *Proceedings of the Student Research Workshop, Association for Computational Linguistics, 43rd Annual Meeting (ACL 2005)*, Ann Arbor, MI, USA. East Stroudsburg, PA: Association for Computational Linguistics, 37-42. <https://www.aclweb.org/anthology/P05-2007>

- [P.4] Matt Huenerfauth. 2004. "Spatial and Planning Models of ASL Classifier Predicates for Machine Translation." In *Proceedings of the 10th International Conference on Theoretical and Methodological Issues in Machine Translation (TMI 2004)*, Baltimore, MD, USA.
- [P.3] Matt Huenerfauth. 2004. "Spatial Representation of Classifier Predicates for Machine Translation into American Sign Language." In *Proceedings of the Workshop on the Representation and Processing of Signed Languages, The 4th International Conference on Language Resources and Evaluation (LREC 2004)*, Lisbon, Portugal. European Language Resources Association, Paris, France.
- [P.2] Matt Huenerfauth. 2004. "A Multi-Path Architecture for Machine Translation of English Text into American Sign Language Animation." In *Proceedings of the Student Research Workshop at the Human Language Technologies conference / North American chapter of the Association for Computational Linguistics (HLT-NAACL 2004)*, Boston, MA, USA. East Stroudsburg, PA: Association for Computational Linguistics, 25-30. <https://www.aclweb.org/anthology/N04-2005>
- [P.1] Matt Huenerfauth. 2002. "Design Approaches for Developing User-Interfaces Accessible to Illiterate Users." In *Proceedings of the Intelligent and Situation-Aware Media and Presentations Workshop, American Association of Artificial Intelligence Conference (AAAI 2002)*, Edmonton, Alberta, Canada. <https://www.aaai.org/Papers/Workshops/2002/WS-02-08/WS02-08-005.pdf>

Edited Volumes

- [E.32] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2019. Special Issue on ASSETS'17 (Part 2). *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 12, Issue 3 (September 2019)
- [E.31] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2019. Special Issue on ASSETS'17 and Regular Papers. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 12, Issue 2 (July 2019)
- [E.30] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2019. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 12, Issue 1 (February 2019)
- [E.29] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2018. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 11, Issue 4 (November 2018)
- [E.28] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2018. Special Issue on Fabrication Technologies and Do-It-Yourself Accessibility and Regular Papers, *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 11, Issue 3 (October 2018)
- [E.27] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2018. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 11, Issue 2 (June 2018)
- [E.26] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2018. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 11, Issue 1 (April 2018)
- [E.25] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2017. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 10, Issue 4 (October 2017)
- [E.24] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2017. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 10, Issue 3 (August 2017)
- [E.23] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2017. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 10, Issue 2 (April 2017)
- [E.22] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2017. Special Issue (Part 2) of Papers from Assets 2015. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 10, Issue 1 (April 2017)
- [E.21] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2017. Special Issue (Part 1) of Papers from Assets 2015. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 9, Issue 4 (April 2017)
- [E.20] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2017. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 9, Issue 3 (February 2017)

- [E.19] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2017. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 9, Issue 2 (January 2017)
- [E.18] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2016. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 9, Issue 1 (November 2016)
- [E.17] Jinjuan Heidi Feng (General Chair) and Matt Huenerfauth (Program Chair). 2016. *Proceedings of the 18th International ACM SIGACCESS Conference on Computers and Accessibility*. ACM, New York, NY, USA.
- [E.16] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2016. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 8, Issue 4 (May 2016)
- [E.15] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2016. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 8, Issue 3 (May 2016)
- [E.14] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2016. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 8, Issue 2 (January 2016)
- [E.13] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2016. Special Issue (Part 1) of Papers from Assets 2014. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 8, Issue 1 (January 2016)
- [E.12] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2015. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 7, Issue 4 (November 2015)
- [E.11] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2015. Special Issue (Part 2) of Papers from Assets 2013. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 7, Issue 3 (November 2015)
- [E.10] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2015. Special Issue on Speech and Language Processing for AT (Part 3). *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 7, Issue 2 (July 2015)
- [E.9] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2015. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 7, Issue 1 (June 2015)
- [E.8] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2015. Special Issue on Speech and Language Processing for AT (Part 2). *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 6, Issue 4 (June 2015)
- [E.7] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2015. Special Issue on Speech and Language Processing for AT (Part 1). *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 6, Issue 3 (June 2015)
- [E.6] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2015. Special Issue (Part 1) of Papers from Assets 2013. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 6, Issue 2 (March 2015)
- [E.5] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2015. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 6, Issue 1 (March 2015)
- [E.4] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2014. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 5, Issue 4 (March 2014)
- [E.3] Matt Huenerfauth and Kathleen F. McCoy (Eds.). 2014. *ACM Transactions on Accessible Computing (TACCESS)* journal, Volume 5, Issue 3 (January 2014)
- [E.2] Matt Huenerfauth (General Chair) and Sri Kurniawan (Program Chair). 2012. *Proceedings of the 14th International ACM SIGACCESS Conference on Computers and Accessibility*. ACM, New York, NY, USA.
- [E.1] Matt Huenerfauth and Bo Pang (Doctoral Consortium Chairs). 2006. *Proceedings of the Doctoral Consortium, Human Language Technology Conference of the North American Chapter of the Association of Computational Linguistics*. Association for Computational Linguistics.

Theses

- [T.3] Matt Huenerfauth. 2006. Generating American Sign Language Classifier Predicates for English-to-ASL Machine Translation. Doctoral Dissertation, Computer and Information Science, University of Pennsylvania.
- [T.2] Matt Huenerfauth. 2002. Developing Design Recommendations for Computer Interfaces Accessible to Illiterate Users. M.Sc. Thesis, Computer Science, National University of Ireland, University College Dublin.
- [T.1] Matt Huenerfauth. 2001. Development of PeTaLS: Personality Tagged Logical Statistical Generator. M.S. Thesis, Computer and Information Sciences, University of Delaware.

Other Publications or Posters

- [O.58] Matt Huenerfauth. 2021. “Human-Computer Interaction and Automatic Text Simplification: Understanding the Perspective of Deaf and Hard of Hearing Users.” In: Saggion, H., Štajner, S. and Ferrés, D. (Eds). *Proceedings of the First Workshop on Current Trends in Text Simplification (CTTS 2021), co-located with SEPLN 2021*. Spanish Society for Natural Language Processing. September 21st, 2021 (Online). <http://ceur-ws.org/Vol-2944/abstract1.pdf>
- [O.57] Akhter Al Amin, Matt Huenerfauth. 2021. “Perspectives of Deaf and Hard-of-Hearing Viewers on Live-TV Caption Quality.” In *iConference 2021: Diversity, Divergence, Dialogue*. Poster Presentation. <http://hdl.handle.net/2142/109692>
Conference Award: Finalist for Best Poster Award, iConference 2021.
- [O.56] Abraham Glasser, Vaishnavi Mande, Matt Huenerfauth. 2020. “On How Deaf and Hard of Hearing Users Might Use Sign Language Conversational User Interfaces.” Sign Language Recognition, Translation & Production (SLRTP) Workshop, at the 16th European Conference on Computer Vision (ECCV’20). Poster Presentation.
- [O.55] Saad Hassan, Oliver Alonzo, Abraham Glasser, Matt Huenerfauth. 2020. “Effect of Ranking and Precision of Results on Users’ Satisfaction with Search-by-Video Sign-Language Dictionaries.” Sign Language Recognition, Translation & Production (SLRTP) Workshop, at the 16th European Conference on Computer Vision (ECCV’20). Poster Presentation.
- [O.54] Sushant Kafle, Abraham Glasser, Sedeeq Al-khazraji, Larwan Berke, Matthew Seita, and Matt Huenerfauth. 2020. “Artificial Intelligence Fairness in the Context of Accessibility Research on Intelligent Systems for People who are Deaf or Hard of Hearing.” *SIGACCESS Accessibility and Computing*, 125, Article 4 (March 2020), 1 pages. DOI: <https://doi.org/10.1145/3386296.3386300>
- [O.53] Danielle Bragg, Meredith Ringel Morris, Matt Huenerfauth, Christian Vogler, Raja Kushalnagar, Hernisa Kacorri. 2020. “Sign Language Interfaces: Discussing the Field’s Biggest Challenges.” In *Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (CHI EA ’20)*. Association for Computing Machinery, New York, NY, USA, 1–5. DOI: <https://doi.org/10.1145/3334480.3381053> [This proposal was accepted for a *CHI’20* Special Interest Group session; however, the conference was cancelled due to COVID-19.]
- [O.52] Sushant Kafle, Abraham Glasser, Sedeeq Al-khazraji, Larwan Berke, Matthew Seita, Matt Huenerfauth. “Artificial Intelligence Fairness in the Context of Accessibility Research on Intelligent Systems for People who are Deaf or Hard of Hearing.” *The ACM ASSETS 2019 Workshop on AI Fairness for People with Disabilities, Pittsburgh, PA, USA*. October 25, 2019. arXiv:1908.10414 [cs.HC] <https://arxiv.org/abs/1908.10414>
- [O.51] Matthew Dye, Kim Kurz, Matt Huenerfauth. 2019. “Sign Language Avatars Activate Phonological and Semantic Representations: Evidence from Working Memory and Priming Paradigms.” Paper presented at *the 13th Conference on Theoretical Issues in Sign Language Research (TISLR 13)*, Hamburg, Germany. [Conference acceptance rate of 6%.]

- [O.50] Spandana Jaggumantri, Sedeeq Al-Khazraji, Abraham Glasser, and Matt Huenerfauth. 2019. “Designing an Interface to Support the Creation of Animations of Individual ASL Signs.” *The 6th Workshop on Sign Language Translation and Avatar Technology. Satellite workshop of the 13th conference of Theoretical Issues in Sign Language Research (TISLR13)*, Hamburg, Germany, September 29, 2019.
- [O.49] Oliver Alonzo, Abraham Glasser, Peter Yeung, Matt Huenerfauth. 2019. “Adapting Reading-Assistance and Automatic Text-Simplification Tools to Assist Self-Directed Learning by Deaf and Hard-of-Hearing Computing Workers. Poster Presentation, National Science Foundation CyberLearning 2019 Conference, Washington, DC, USA, October 3-4, 2019 .
- [O.48] Matt Huenerfauth, Kathleen F. McCoy. 2019. Editorial: A Message from the Outgoing Editors-in-Chief. *ACM Transactions on Accessible Computing* 12, 3, Article 10 (August 2019), 2 pages. DOI: <https://doi.org/10.1145/3345019>
- [O.47] Joseph Bochner, Vincent Samar, Emily Prud'hommeaux, Matt Huenerfauth, Max Coppock. 2019. Categorical Perception in Cochlear Implant Users with Early-Onset Profound Deafness. Poster presented at the 31st American Psychological Society Annual Convention (APS'19), May 23-26, 2019, Washington, D.C., USA.
- [O.46] Sushant Kafle and Matt Huenerfauth. 2020. “Usability Evaluation of Captions for People who are Deaf or Hard of Hearing.” *SIGACCESS Accessibility and Computing*, 122, Article 1 (October 2018), 1 pages. DOI: <https://doi.org/10.1145/3386410.3386411>
- [O.45] Abraham Glasser, Vaishnavi Mande, Matt Huenerfauth. 2019. Dataset of American Sign Language Personal-Assistant Interactions for Model Training. RIT Graduate Education Week Showcase, Poster Session, November 2019.
- [O.44] Khaled L. Albusays, Matt Huenerfauth, Stephanie Ludi. 2019. Evaluating the Use of Audio-based Feedback to Convey the Hierarchical Nesting Structure of Code to Assist Non-Visual Users. RIT Graduate Education Week Showcase, Poster Session, November 2019.
- [O.43] Oliver Alonzo, Matthew Seita, Abraham Glasser, Matt Huenerfauth. 2019. Adapting Automatic Text-Simplification Tools to Provide Reading Assistance for People who are Deaf or Hard of Hearing in Computing. RIT Graduate Education Week Showcase, Poster Session, November 2019.
- [O.42] Paula Conn, Taylor Gotfrid, Qiwen Zhao, Rachel Celestine, Vaishnavi Mande, Kristen Shinohara, Stephanie Ludi, Matt Huenerfauth. 2019. Evaluating the Long-Term Impact of Accessibility Educational Interventions among Computing Undergraduates. RIT Graduate Education Week Showcase, Poster Session, November 2019.
- [O.41] Sedeeq Al-khazraji, Matt Huenerfauth. 2019. Building Predictive Models for Modeling Speed and Timing of American Sign Language to Generate Realistic Animations. RIT Graduate Education Week Showcase, Poster Session, November 2019.
- [O.40] Sushant Kafle, Becca Dingman, Peter Yeung, Matt Huenerfauth. 2019. Evaluating the Benefit of Highlighting Key Words in Captions for People who are Deaf or Hard-of-Hearing. RIT Graduate Education Week Showcase, Poster Session, November 2019.
- [O.39] Abraham Glasser, Alex Kramer, Harshad Golwalkar, Ruiwen Fan, Shuishi Fang, Oliver Alonzo, Matt Huenerfauth. 2018. Collection of Training Data for a Video-Based Search Tool for ASL Dictionaries. RIT Graduate Education Week Showcase, Poster Session, November 2018.
- [O.38] Khaled Albusays, Stephanie Ludi, Matt Huenerfauth. 2018. Investigating the Usability of Audio-based Techniques to Convey the Hierarchical Nesting Structure of Code to Assist Non-Visual. RIT Graduate Education Week Showcase, Poster Session, November 2018.
- [O.37] Larwan Berke, Matt Seita, Abraham Glasser, Sushant Kafle, and Matt Huenerfauth. 2018. Preferences and Requirements of Deaf and Hard-of-Hearing Users for Captions Generated through Automatic Speech Recognition. RIT Graduate Education Week Showcase, Poster Session, November 2018.

- [O.36] Matthew Seita, Larwan Berke, Sushant Kafle, Khaled Albusays, Sedeeq Al-khazraji, Matt Huenerfauth. 2018. Automatic Captioning to Support Small-Group Communication between Deaf and Hard-of-Hearing People and their Hearing Colleagues. RIT Graduate Education Week Showcase, Poster Session, November 2018.
- [O.35] Oliver Alonzo, Abraham Glasser, Peter Yeung, Matt Huenerfauth. 2018. Investigating Reading-Assistance Tools for Self-Directed Learning by Deaf and Hard-of-Hearing Computing Workers. RIT Graduate Education Week Showcase, Poster Session, November 2018.
- [O.34] Paula Conn, Matt Huenerfauth, Taylor Gotfrid, Stephanie Ludi, Kristen Shinohara, Rachel Celestine. 2018. Modeling and Comparing the Efficacy of Various Methods for Teaching Accessibility. RIT Graduate Education Week Showcase, Poster Session, November 2018.
- [O.33] Matthew Seita, Larwan Berke, Gillian Trommer, Matt Huenerfauth. 2018. Learning American Sign Language (ASL) Through Real-Time Practice. RIT Graduate Education Week Showcase, Poster Session, November 2018.
- [O.32] Sedeeq Al-khazraji, Larwan Berke, Sushant Kafle, Peter Yeung, Matt Huenerfauth. 2018. Using Data-Driven Approach for Modeling Timing Parameters of American Sign Language. RIT Graduate Education Week Showcase, Poster Session, November 2018.
- [O.31] Sushant Kafle, Matt Huenerfauth. 2018. Modeling Acoustic-Prosodic Cues for Word-Importance Prediction in Spoken Dialogues. RIT Graduate Education Week Showcase, Poster Session, November 2018.
- [O.30] Abraham Glasser, Alex Kramer, Harshad Golwalkar, Ruiwen Fan, Shuishi Fang, Oliver Alonzo, Matt Huenerfauth. 2018. Collection of Training Data for a Video-Based Search Tool for ASL Dictionaries. AI@GCCIS: Golisano College Research & Innovation Showcase, Poster Session, October 2019.
- [O.29] Khaled Albusays, Stephanie Ludi, Matt Huenerfauth. 2018. Investigating the Usability of Audio-based Techniques to Convey the Hierarchical Nesting Structure of Code to Assist Non-Visual. AI@GCCIS: Golisano College Research & Innovation Showcase, Poster Session, October 2019.
- [O.28] Larwan Berke, Matt Seita, Abraham Glasser, Sushant Kafle, and Matt Huenerfauth. 2018. Preferences and Requirements of Deaf and Hard-of-Hearing Users for Captions Generated through Automatic Speech Recognition. AI@GCCIS: Golisano College Research & Innovation Showcase, Poster Session, October 2019.
- [O.27] Matthew Seita, Larwan Berke, Sushant Kafle, Khaled Albusays, Sedeeq Al-khazraji, Matt Huenerfauth. 2018. Automatic Captioning to Support Small-Group Communication between Deaf and Hard-of-Hearing People and their Hearing Colleagues. AI@GCCIS: Golisano College Research & Innovation Showcase, Poster Session, October 2019.
- [O.26] Oliver Alonzo, Abraham Glasser, Peter Yeung, Matt Huenerfauth. 2018. Investigating Reading-Assistance Tools for Self-Directed Learning by Deaf and Hard-of-Hearing Computing Workers. AI@GCCIS: Golisano College Research & Innovation Showcase, Poster Session, October 2019.
- [O.25] Paula Conn, Matt Huenerfauth, Taylor Gotfrid, Stephanie Ludi, Kristen Shinohara, Rachel Celestine. 2018. Modeling and Comparing the Efficacy of Various Methods for Teaching Accessibility. AI@GCCIS: Golisano College Research & Innovation Showcase, Poster Session, October 2019.
- [O.24] Matthew Seita, Larwan Berke, Gillian Trommer, Matt Huenerfauth. 2018. Learning American Sign Language (ASL) Through Real-Time Practice. AI@GCCIS: Golisano College Research & Innovation Showcase, Poster Session, October 2019.
- [O.23] Peter Yeung, Abraham Glasser, Matt Huenerfauth. 2018. Video and 3D Depth Training Data Collection for Sign-Language Computer Vision Models, in Support of Linguistics Research. AI@GCCIS: Golisano College Research & Innovation Showcase, Poster Session, October 2019.

- [O.22] Sedeeq Al-khazraji, Larwan Berke, Sushant Kafle, Peter Yeung, Matt Huenerfauth. 2018. Using Data-Driven Approach for Modeling Timing Parameters of American Sign Language. AI@GCCIS: Golisano College Research & Innovation Showcase, Poster Session, October 2019.
- [O.21] Sushant Kafle, Matt Huenerfauth. 2018. Modeling Acoustic-Prosodic Cues for Word-Importance Prediction in Spoken Dialogues. AI@GCCIS: Golisano College Research & Innovation Showcase, Poster Session, October 2019.
- [O.20] Larwan Berke, Matt Huenerfauth. 2017. Displaying Confidence from Imperfect Automatic Speech Recognition for Captioning. *Effective Access Technologies Conference*, Rochester, New York, USA. April 21, 2017. Poster Presentation. **Award: 2nd Place, Best Poster Award Competition 2017.**
- [O.19] Sedeeq Al-khazraji and Matt Huenerfauth. 2017. Modeling the Speed and Timing of American Sign Language to Generate Animations. *Effective Access Technologies Conference*, Rochester, New York, USA. April 21, 2017. Poster Presentation.
- [O.18] Khaled Albusays, Matt Huenerfauth, and Stephanie Ludi. 2017. Towards a Better Understanding of Code Navigation Challenges Faced by Developers who are Blind: Requirements Elicitation Study. *Effective Access Technologies Conference*, Rochester, New York, USA. April 21, 2017. Poster Presentation.
- [O.17] Sushant Kafle and Matt Huenerfauth. 2017. Effect of Speech Recognition Errors on Text Understandability for People who are Deaf or Hard of Hearing. *Effective Access Technologies Conference*, Rochester, New York, USA. April 21, 2017. Poster Presentation.
- [O.16] Larwan Berke, Aiko Resendiz, Kasmira Patel, Anmol Kaur, and Matt Huenerfauth. 2017. Creating a Training Dataset for an Automatic Educational Feedback System for American Sign Language Students. *Effective Access Technologies Conference*, Rochester, New York, USA. April 21, 2017. Poster Presentation.
- [O.15] Hernisa Kacorri, Matt Huenerfauth. 2017. Continuous Profile Models in ASL Syntactic Facial Expression Synthesis. *The 11th Annual Machine Learning Symposium*, New York Academy of Sciences, New York, NY, USA. March 3, 2017. Poster Presentation.
- [O.14] Sushant Kafle and Matt Huenerfauth. 2017. Modeling the Effect of Speech Recognition Errors on Text Understandability for People who are Deaf or Hard of Hearing. *Move 78 Retreat on Artificial Intelligence*, Rochester Institute of Technology, Rochester, New York, USA. February 17, 2017. Poster Presentation.
- [O.13] Larwan Berke, Kasmira Patel, Aiko Resendiz, Anmol Kaur, and Matt Huenerfauth. 2017. Creating a Training Dataset for an Automatic Educational Feedback System for American Sign Language Students. *Move 78 Retreat on Artificial Intelligence*, Rochester Institute of Technology, Rochester, New York, USA. February 17, 2017. Poster Presentation.
- [O.12] Sedeeq Al-khazraji and Matt Huenerfauth. 2017. Modeling the Speed and Timing of American Sign Language to Generate Animations. *Move 78 Retreat on Artificial Intelligence*, Rochester Institute of Technology, Rochester, New York, USA. February 17, 2017. Poster Presentation.
- [O.11] Jinjuan Heidi Feng, Matt Huenerfauth. 2017. Overview of the ASSETS 2016 Conference. *SIGACCESS Accessibility and Computing*. New York: ACM Press. Issue 117 (January 2017).
- [O.10] Larwan Berke, Sushant Kafle, Christopher Caulfield, Matt Huenerfauth, and Michael Stinson. 2017. "Making the Best of Imperfect Automatic Speech Recognition for Captioning One-on-One Meetings." *NTID Scholarship Symposium, National Technical Institute for the Deaf*, Rochester, NY, January 12, 2017. http://www.ntid.rit.edu/sites/default/files/pd/symposium_program_2017.pdf
- [O.9] Lisa Elliot, Michael Stinson, Donna Easton, James Mallory, and Matt Huenerfauth. 2017. "Communication Strategies in the Workplace Survey." *NTID Scholarship Symposium, National Technical Institute for the Deaf*, Rochester, NY, January 12, 2017. http://www.ntid.rit.edu/sites/default/files/pd/symposium_program_2017.pdf
- [O.8] Michael Stinson, James Mallory, Lisa Elliot, Michael Stinson, Donna Easton, and Matt Huenerfauth. 2017. "Field Study of Using Automatic Speech Recognition to Facilitate Communication between Deaf Students

and Hearing Customers.” *NTID Scholarship Symposium, National Technical Institute for the Deaf*, Rochester, NY, January 12, 2017.
http://www.ntid.rit.edu/sites/default/files/pd/symposium_program_2017.pdf

- [O.7] Matt Huenerfauth, Elaine Gale, Brian Penly, Mackenzie Willard, Dhananjai Hariharan. 2015. “Designing Tools to Facilitate Students Learning American Sign Language.” *Effective Access Technologies Conference*, Rochester, New York, USA. November 10, 2015. Poster Presentation.
Finalist for Best Poster Award 2015.
- [O.6] Hernisa Kacorri, Matt Huenerfauth, Sarah Ebling, Kasmira Patel, Mackenzie Willard, Kellie Menzies. 2015. “Measuring Participant Characteristics that Relate to Sign Language Technology Acceptance.” *Effective Access Technologies Conference*, Rochester, New York, USA. November 10, 2015. Poster Presentation.
- [O.5] Matt Huenerfauth. 2014. “Learning to Generate Understandable Animations of American Sign Language.” *Effective Access Technologies Conference*, Rochester, New York, USA. June 17-18, 2014. 6 pages.
Finalist for Best Poster Award 2014.
- [O.4] Matt Huenerfauth. 2010. “Participation of High School and Undergraduate Students who are Deaf in Research on American Sign Language Animation.” *ACM SIGACCESS Accessibility and Computing*. New York: ACM Press. Issue 97 (June 2010).
- [O.3] Matt Huenerfauth. 2005. “American Sign Language Natural Language Generation and Machine Translation.” *ACM SIGACCESS Accessibility and Computing*. New York: ACM Press. Issue 81 (January 2005).
- [O.2] Matt Huenerfauth. 2004. “American Sign Language Natural Language Generation and Machine Translation.” Doctoral Consortium Presentation and Poster Session at the 6th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2004), Atlanta, GA, USA.
Conference Award: Best Doctoral Candidate Award, Delivered Closing Plenary Address, ASSETS 2004.
- [O.1] Matt Huenerfauth. 2003. A Survey and Critique of American Sign Language Natural Language Generation and Machine Translation Systems. Technical Report MS-CIS-03-32, Computer and Information Science, University of Pennsylvania.

Service to the Profession: Leadership Roles (2006 to present, ongoing activities listed first)

Chair, Special Interest Group on Accessible Computing (SIGACCESS), Association for Computing Machinery (ACM), July 2021 to Present. (Elected by researchers internationally in the field of computing accessibility for a three-year term in 2021. SIGACCESS sponsors the top international conference in the field of accessibility, ASSETS, as well as scholarships and initiatives in support of the international community applying computing and information technologies to empower individuals with disabilities and older adults.)

Steering Committee, The International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS), October 2012 to Present. (This advisory committee consists of former general chairs of the conference.)

Editorial Board, the *ACM Transactions on Accessible Computing* (TACCESS) journal, Association for Computing Machinery, 2008 to Present.

Associate Editor, the *ACM Transactions on Accessible Computing* (TACCESS) journal, Association for Computing Machinery, 2011 to August 2013, August 2019 to Present.

Steering Committee, CREST Network, Gallaudet University, August 2020 to 2023. CREST is a worldwide network for students, researchers, developers, and professionals who are curious about sign-related technology, funded through the NSF Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES) program.

Vice-Chair, Special Interest Group on Accessible Computing (SIGACCESS), Association for Computing Machinery (ACM), July 2015 to June 2021. (Elected by researchers internationally in the field of computing accessibility for a three-year term in 2015; re-elected for an additional three-year term in 2018.)

Editor-in-Chief, the *ACM Transactions on Accessible Computing* (TACCESS) journal, Association for Computing Machinery, August 2013 to July 2019. Leading research journal in the field of accessible computing, indexed by Elsevier Scopus and Clarivate (formerly Thompson Reuters) Emerging Sources Citation Index (ESCI).

Deputy Program Chair, The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2019), Pittsburgh, PA, USA. (The deputy program chair oversees the review process and technical paper selection for any papers submitted by the general or program chairs of the conference.)

Associate Chair (AC), paper/notes subcommittee on Accessibility and Aging, The 2020 ACM CHI Conference on Human Factors in Computing Systems (CHI-2020), Honolulu, Hawaii.

Program Chair, The 18th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2016), Reno, Nevada, USA. (The program chair oversees the review process and technical paper selection.)

Vice-President, Special Interest Group on Speech and Language Processing for Assistive Technologies (SLPAT), Association for Computational Linguistics (ACL), January 2013 to January 2015.

General Chair, The 14th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2012), Boulder, Colorado, USA. (The general chair is the lead of the organizing committee of the conference.)

Associate Chair (AC), paper/notes subcommittee on Usability, Accessibility and User Experience, The 31th ACM CHI Conference on Human Factors in Computing Systems (CHI-2013), Paris, France.

Organizing Committee Member, The 2nd International Workshop on Sign Language Translation and Avatar Technology (SLTAT) held at the 13th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2011), Dundee, Scotland, UK.

Doctoral Consortium Chair, The 12th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2010), Orlando, Florida, USA.

Student Research Competition Co-Chair, The 10th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2008), Halifax, Canada.

Publicity Chair, The 9th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2007), Tempe, AZ, USA.

Co-Chair, Doctoral Student Consortium at the Human Language Technology conference - North American chapter of the Association for Computational Linguistics annual meeting (HLT-NAACL) 2006 in New York, NY, USA.

Service to the Profession: Program Committees (2006 to present, ongoing activities listed first)

Program Committee Member, The 25th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2023), New York, NY.

Program Committee Member, The 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2022), Athens, Greece.

Program Committee Member, The 10th Workshop on the Representation and Processing of Sign Languages, at the Language Resources and Evaluation Conference (LREC'22), Marseille, France.

Program Committee Member, The 2nd Workshop on Bridging Human-Computer Interaction and Natural Language Processing (HCI + NLP), at the 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL'22).

Program Committee Member, The 19th International Web for All Conference (Web4All-2022), April 2022, Virtual.

Program Committee Member, The 23rd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2021), Virtual.

Program Committee Member, The 9th Workshop on the Representation and Processing of Sign Languages: Sign Language Resources in the Service of the Language Community, Technological Challenges and Application Perspectives, at the Language Resources and Evaluation Conference (LREC'20), Marseille, France.

Program Committee Member, The 22nd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2020), Virtual.

Program Committee Member, The 35rd Annual International Technology and Persons with Disabilities Conference (CSUN 2020), Scientific/Research Track, Anaheim, CA, USA. March 2020.

Program Committee Member, The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2019), Pittsburgh, PA, USA.

Program Committee Member, The 6th International Workshop on Sign Language Translation and Avatar Technology (SLTAT), Hamburg, Germany. September 29, 2019.

Program Committee Member, The 2019 Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), Florence, Italy.

Program Committee Member, The 33rd Annual International Technology and Persons with Disabilities Conference (CSUN 2018), Scientific/Research Track, Anaheim, CA, USA. March 2018.

Program Committee Member, The 20th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2018), Galway, Ireland.

Program Committee Member, The 16th biennial International Conference on Computers Helping People with Special Needs (ICCHP'18), Linz, Austria.

Program Committee Member, The 8th Workshop on the Representation and Processing of Sign Languages: Involving the Language Community, at the Language Resources and Evaluation Conference (LREC'18), Miyazaki, Japan.

Program Committee Member, The 2018 Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies (NAACL NLT 2018), New Orleans, LA, USA.

Program Committee Member, The 19th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2017), Baltimore, Maryland, USA.

Program Committee Member, The 4th Annual Effective Access Technology Conference, Rochester Institute of Technology, Rochester, New York, USA.

Program Committee Member, The 32nd Annual International Technology and Persons with Disabilities Conference (CSUN 2017), Scientific/Research Track, San Diego, CA, USA. February 27 to March 4, 2017.

Program Committee Member, The 7th Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), held at INTERSPEECH 2016, San Francisco, CA, USA. September 13, 2016.

Program Committee Member, The 18th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2016), Reno, Nevada, USA.

Program Committee Member, The 13th International Web for All Conference (Web4All-W4A2016), April 2016, Montreal, Quebec, Canada.

Program Committee Member, The 6th International Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), held at INTERSPEECH 2015, Dresden, Germany. September 11, 2015.

Program Committee Member, The 17th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2015), Lisbon, Portugal.

Program Committee Member, The 12th International Web for All Conference (Web4All-W4A2015), May 2015, Florence, Italy.

Program Committee Member, Fifth Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), Workshop of ACL 2014, June 2014, Baltimore, MD, USA.

Program Committee Member, The 16th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2014), Rochester, NY, USA.

Program Committee Member, The 11th International Web for All Conference (Web4All-W4A2014), April 2014, Seoul, Korea.

Scientific Committee Member, Special Issue of the *Journal of Applied Linguistics* on “Readability and text Simplification for Education,” 2013.

Program Committee Member, The 15th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2013), Bellevue, Washington, USA.

Program Committee Member, Fourth Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), Satellite Workshop of INTERSPEECH 2013, August 2013, Grenoble, France.

Program Committee Member, Second Workshop on Predicting and Improving Text Readability for Target Reader Populations (PITR), held at the 51st Annual Meeting of the Association for Computational Linguistics (ACL 2013), Sofia, Bulgaria.

Program Committee Member, The 10th International Cross-Disciplinary Conference on Web Accessibility (Web4All-W4A2013), May 2013, Rio de Janeiro, Brazil.

Program Committee Member, The 14th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2012), Boulder, Colorado, USA.

Program Committee Member, Third Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), held at The 13th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, 2012, Montreal, Quebec, Canada.

Program Committee Member, Workshop on Predicting and Improving Text Readability, held at The 13th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, 2012, Montreal, Quebec, Canada.

Program Committee Member, Student Research Workshop and Doctoral Consortium, held at The 13th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, 2012, Montreal, Quebec, Canada.

Program Committee Member, The 9th International Cross-Disciplinary Conference on Web Accessibility (Web4All-W4A2012).

Program Committee Member, The 13th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2011), Dundee, Scotland, UK.

Program Committee Member, Second Workshop on Speech and Language Processing for Assistive Technologies (SLPAT) held at the Conference on Empirical Methods in Natural Language Processing (EMNLP-2011), Edinburgh, Scotland, UK.

Program Committee Member, The 8th International Cross-Disciplinary Conference on Web Accessibility (W4A-2011), Hyderabad, Andhra Pradesh, India.

Program Committee Member, The 12th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2010), Orlando, Florida, USA.

Program Committee Member, First Workshop on Speech and Language Processing for Assistive Technologies (SLPAT), held at Human Language Technologies: The 11th Annual Conference of the North American Chapter of the Association for Computational Linguistics, June 2010, Los Angeles, CA, USA.

Program Committee Member, The Second IASTED International Conference on Telehealth and Assistive Technology (TAT 2009), Cambridge, MA, USA.

Program Committee Member, The 11th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2009), Pittsburgh, PA, USA.

Program Committee Member, The 10th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2008), Halifax, Canada.

Program Committee Member, The IASTED International Conference on Assistive Technologies (AT 2008), Baltimore, MD, USA.

Program Committee Member, The 9th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS 2007), Tempe, AZ, USA.

Program Committee Member, Student Session, INLG 2006: Meeting of the Special Interest Group in Natural Language Generation (SIGGEN), COLING/ACL 2006: International Committee on Computational Linguistics and the Association for Computational Linguistics Joint Conference, Sydney, Australia.

Service to the Profession: Reviewing (2006 to present, ongoing activities listed first)

Reviewer, The 35th ACM CHI Conference on Human Factors in Computing Systems (CHI-2020), Honolulu.

Reviewer, The 34th ACM CHI Conference on Human Factors in Computing Systems (CHI-2019), Glasgow.

□ **Special recognition award for outstanding review, CHI 2019 Papers.**

Reviewer, The 33rd ACM CHI Conference on Human Factors in Computing Systems (CHI-2018), Montreal.

Review Panelist, U.S. National Science Foundation, Directorate for Computer & Information Science & Engineering, Intelligent and Information Systems Division, Spring 2017.

Reviewer, The 32nd ACM CHI Conference on Human Factors in Computing Systems (CHI-2017), Denver, CO.

Reviewer, The ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp-2016), Heidelberg, Germany.

Reviewer, The ACM Symposium on Applied Perception (SAP-2016), Anaheim, CA.

Reviewer, The 29th ACM User Interface Software and Technology Symposium (UIST-2016), Tokyo, Japan.

Reviewer, The 31th ACM CHI Conference on Human Factors in Computing Systems (CHI-2016), San Jose, CA.

Reviewer, The 30th ACM CHI Conference on Human Factors in Computing Systems (CHI-2015), Seoul, Korea.

□ **Special recognition award for exceptional review, CHI 2015 Paper and Notes.**

Reviewer, The 3rd International Workshop on Sign Language Translation and Avatar Technology (SLTAT), Chicago, Illinois, USA. October 18-19, 2013.

Journal Reviewer, the *Computer Speech and Language (CSL)* journal special issue, January 2013.

Ad Hoc Proposal Reviewer, U.S. National Science Foundation, Directorate for Computer & Information Science & Engineering, Intelligent and Information Systems Division, December 2012.

Journal Reviewer, the *Computer Speech and Language (CSL)* journal special issue, March 2012.

Reviewer, The 30th ACM CHI Conference on Human Factors in Computing Systems (CHI-2012), Austin, TX, USA.

Journal Reviewer, the *Machine Translation (MT)* journal, June 2011.

Reviewer, The 29th ACM CHI Conference on Human Factors in Computing Systems (CHI-2011), Vancouver, BC, Canada.

Ad Hoc Proposal Reviewer, U.S. National Science Foundation, Directorate for Education and Human Resources, June 2010.

Reviewer, The 23rd International Conference on Computational Linguistics (COLING 2010), Beijing, China.

Ad Hoc Proposal Reviewer, U.S. National Science Foundation, Directorate for Computer & Information Science & Engineering, Intelligent and Information Systems Division, March 2010.

Review Panelist, U.S. National Science Foundation, Directorate for Computer & Information Science & Engineering, Intelligent and Information Systems Division, Spring 2009.

Ad Hoc Reviewer, ACM Symposium on User Interface Software and Technology (UIST), May 2009.

Journal Reviewer, *Journal of Artificial Intelligence Research (JAIR)*, April 2009.

Journal Reviewer, the *Machine Translation (MT)* journal, March 2009.

Ad Hoc Proposal Reviewer, U.S. National Science Foundation, Directorate for Computer & Information Science & Engineering, Intelligent and Information Systems Division, February 2009.

Ad Hoc Proposal Reviewer, U.S. National Science Foundation, Directorate for Computer & Information Science & Engineering, Intelligent and Information Systems Division, February 2008.

Journal Reviewer, ACM Transactions on Accessible Computing, Association for Computing Machinery, 2007.

Service to the Profession: Other Activities (2006 to present, ongoing activities listed first)

Participant, Computing Research Association (CRA) workshop on Accessibility Technology for All. Academic, industry, and government representatives discussed the future of the computing accessibility field and prepared a CRA report on this field, to guide funding agencies and industry. Washington, DC, February 22-23, 2023.

Participant, Google, “Machine Learning for Accessibility Workshop,” invitation-only workshop of experts on artificial intelligence and accessibility technologies, Google, San Francisco, CA, USA, October 15-16, 2019.

Participant, Microsoft and the AI Now Institute, “Microsoft Workshop on Disability, AI, and Bias,” invitation-only gathering of researchers and experts on disabilities and technology, New York, NY, USA, March 28, 2019.

ACM Representative, Integrating Ethics Across Computing Science Curricula Workshop at Harvard University hosted by the Harvard University Center for Research on Computation and Society, October 2018.

Partner, AccessComputing, NSF-funded program based at the University of Washington to broadening participation in computing for people with disabilities, 2011 to Present.

Participant, Teach Access initiative. This collaboration between higher education institutions and technology companies has goals of: adding accessibility topics to computing curricula, expanding the study of accessible technology development, creating online learning tools on accessibility, and modifying corporate hiring practices such that standard job descriptions will include a preference for accessibility knowledge and that recruitment activities will focus on accessibility. The group has met via teleconference and in-person at events at the CSUN 2016 conference and at an April 2016 Kick-start Workshop event at Yahoo! in Sunnyvale, CA. March 2016 to April 2019.

Participant, UW CSE/MSR Summer Institute on “Expanding Accessibility Research,” an annual invitation-only gathering of thought leaders on a timely research topic, co-sponsored by University of Washington Computer Science & Engineering department and Microsoft Research, Union, WA, USA, July 5-8, 2016.

Participant, Strategic Planning Committee on Assistive Technology and Universal Design, Interagency Committee on Disability Research (IDCR), U.S. Federal Government, October 2015.

Participant, AccessComputing Leadership Institute, organized by the AccessComputing program at the University of Washington to bring together leaders and emerging leaders to share best practices and funding for broadening participation in computing for people with disabilities, Seattle, WA, November 6-7, 2008.

Member of the Faculty Working Group, Summit to Create a Cyber-Community to Advance Deaf and Hard-of-Hearing Individuals in STEM (DHH Cyber-Community), NSF-funded summit lead by U. Washington and Rochester Institute of Technology with 50 invited leaders in science, technology, engineering, and mathematics (STEM) education for deaf and hard-of-hearing students, Rochester, NY, June 25-28, 2008.

Service Activities within the University (2014 to present, Rochester Institute of Technology)

Member, Executive Advisory Council of the RIT President's Commission on Women, which proposes initiatives to ensure a supporting and welcoming environment for women at RIT, including programs that support recruiting and retention, climate improvement, and educational programming. 2022 to present.

Member, Provost's ad hoc committee to analyze the impact and implementation of activity-based budgeting on academic affairs, September to October 2023.

Member, Campus Partners Advisory Group, Search Committee for the next Director of the Center for Counselling and Psychological Services, Wellness, Student Affairs, RIT, February 2023.

Director (school head/chair), School of Information – The iSchool, Golisano College of Computing and Information Sciences, Rochester Institute of Technology, August 2020 to June 2022.

Course Lead, HCIN-794 “HCI MS Capstone Proposal Development,” School of Information, Golisano College of Computing and Information Sciences, Rochester Institute of Technology, 2019-2020.

Committee Member, Linguistics / Language Science Curriculum Committee, interdisciplinary curriculum committee with representatives from across the institute, Rochester Institute of Technology, Fall 2016-Present.

Core Faculty Member, RIT Research Center for Human Aware Artificial Intelligence (CHAI), Rochester Institute of Technology, 2018 to Present.

Program Coordinator, HCI Masters Program, School of Information (formerly Department of Information Sciences and Technology), Golisano College of Computing and Information Sciences, Rochester Institute of Technology, 2015-2020.

Committee Member, Curriculum Committee, School of Information (formerly Department of Information Sciences and Technology), Golisano College of Computing and Information Sciences, Rochester Institute of Technology, 2015-2020.

Committee Member, Assessment Committee, School of Information (formerly Department of Information Sciences and Technology), Golisano College of Computing and Information Sciences, Rochester Institute of Technology, 2015- 2020.

Committee Member (Departmental Representative), Outstanding Scholar Committee, Golisano College of Computing and Information Sciences, Rochester Institute of Technology, Spring 2016 to Spring 2020. (Recused myself from committee in Spring 2017 since I was a candidate for this award.)

Course Lead, HCIN-610 “Foundations of HCI,” School of Information, Golisano College of Computing and Information Sciences, Rochester Institute of Technology, 2015-2020.

Committee Member, Ad Hoc Committee to Author a Mission Statement for the iSchool, School of Information, Golisano College of Computing and Information Sciences, Rochester Institute of Technology, Fall 2019.

Committee Member, Ad Hoc Committee to Consider Alternative PhD Admissions Policies, Golisano College of Computing and Information Sciences, Rochester Institute of Technology, Fall 2019.

Chair, Search Committee, Department of Information Sciences and Technology, Golisano College of Computing and Information Sciences, Rochester Institute of Technology, 2018-2019. Cluster hire for three faculty.

Course Lead, HCIN-730 “User Centered Design Methods” and HCIN-735 “Collaboration Technology and Human Experience,” School of Information, Golisano College of Computing and Information Sciences, Rochester Institute of Technology, 2016-2019.

Committee Member, Ad Hoc Committee to Establish Expectations for Promotion to Professor, Golisano College of Computing and Information Sciences, Rochester Institute of Technology, Spring 2018-Fall 2019.

Committee Member, Research Seed Funding Review Committee, Deans Office, Golisano College of Computing and Information Sciences, Rochester Institute of Technology, December 2018.

Designer/Creator of Interim Program Website, PhD Program in Computing and Information Sciences, Rochester Institute of Technology, Spring 2018.

Committee Member, Website Content Planning Ad Hoc Committee, PhD Program in Computing and Information Sciences, Rochester Institute of Technology, Fall 2017.

Member, Working Group, Initiative to Study the Use of Automatic Speech Recognition in Educational Environment for People who are Deaf or Hard of Hearing, Office of the President of NTID, faculty and researchers from across RIT are meeting regularly to plan a research initiative in this area, Fall 2015 to 2017.

Member, Search Committee, for a visiting assistant professor in the area of natural language processing and speech technology, Department of English, Rochester Institute of Technology (RIT), October to December 2017.

Member, Presidential Search Committee, serving as a faculty representative on the committee to search for the next president of the Rochester Institute of Technology (RIT), June to December 2016.

Committee Member, Research Seed Funding Review Committee, Deans Office, Golisano College of Computing and Information Sciences, Rochester Institute of Technology, January 2017.

Moderator, research retreat hosted by the Associate Dean for Research of National Technical Institute for the Deaf, with participation of four faculty from other RIT colleges who collaborate closely with NTID, January 10, 2017.

Member, Language Science Faculty Group, faculty from across the Rochester Institute of Technology who meet to discuss curriculum matters and planning in the area of linguistics and language science, Fall 2014 to Present.

Committee Member, Research Seed Funding Review Committee, RIT Research Boot Camp Program, Sponsored Research Services, Office of the Vice President for Research, Rochester Institute of Technology, February 2016.

Participant, Professional networking practice event for students in the Autism Spectrum Support Program career course offered by the Office of Career Services & Cooperative Education, RIT, December 4, 2014, and December 11, 2015.

Committee Member, Research Seed Funding Review Committee, Deans Office, Golisano College of Computing and Information Sciences, Rochester Institute of Technology, Fall 2014.

Service Activities within College/University (2006 to 2014, City University of New York)

Associate Dean, Division of Mathematical and Natural Sciences (DMNS), Queens College, The City University of New York, June 2012 to August 2014.

Member, Curriculum Committee, Computer Science Department, Queens College, The City University of New York, September 2009 to August 2014.

Co-Organizer, CUNY-NLP Seminar Series (guest speaker series on natural language processing and computational linguistics), Graduate Center, The City University of New York, September 2009 to August 2014.

Member, Advisory Committee, MARC-U*STAR Maximizing Access to Research Careers program for under-represented minority students, Queens College, The City University of New York, 2013 to August 2014.

Computer Science Departmental Representative, Undergraduate Research Council, Division of Mathematical and Natural Sciences, Queens College, The City University of New York, March 2008 to August 2014.

Member, Executive Committee, Linguistics Graduate Program, Graduate Center, The City University of New York, September 2011 to August 2013.

Member, Admissions and Awards Committee, Linguistics Graduate Program, Graduate Center, The City University of New York, September 2011 to August 2012.

Member, Macaulay College Council, Macaulay Honors College, The City University of New York, December 2010 to December 2012.

Member, Curriculum Committee (college-wide), Macaulay Honors College, The City University of New York, December 2010 to August 2012.

Acting Director, Masters in Computational Linguistics and Doctoral Certificate in Computational Linguistics, Graduate Program in Linguistics, Graduate Center, The City University of New York, December 2010 to August 2012. (*Course scheduling and staffing, curriculum planning, addressing student concerns and issues, updating website information, and admissions advertising campaign.*)

Assistant to the Dean, Division of Mathematical and Natural Sciences (DMNS), Queens College, The City University of New York, November 2011 to June 2012. (*Organizing calendar of divisional events, educational initiatives, institutional data reporting, coordinating creation of division brochure, and other projects.*)

Chair, Search Committee for Visiting Faculty Position, Department of Computer Science, Queens College, The City University of New York, December 2011 to May 2012.

Chair, Academic/Internships Subcommittee, Queens College 75th Anniversary Year Celebration Planning Committee, December 2011 to May 2012.

Member, Ad Hoc Committee for Studying the Pathways General Education Program, Faculty Senate, Queens College, The City University of New York, September 2011 to December 2011.

Member, Research Enhancement Committee, Division of Mathematical and Natural Sciences, Queens College, The City University of New York, September 2011 to November 2011.

Peer Mentoring, Reading proposals, providing feedback, and meeting individually with Computer Science faculty members across CUNY who are reapplying for NSF CAREER Awards, May 2011 to July 2011.

Member, Search Committee, CUNY Cyber-Infrastructure Faculty Position, Queens College, 2009 to 2010.

Member, Committee to Enhance Scholarship and External Funding, Queens College, The City University of New York, January 2009.

Organizer of the Computer Science Department's website redesign/updating project, Department of Computer Science, Queens College, The City University of New York, December 2007 to February 2008.

Invited Presentations and Guest Lectures (2006-Present)

"Human-Computer Interaction and Automatic Text Simplification: Understanding the Perspective of Deaf and Hard of Hearing Users." November 2022. Invited Keynote Presentation, Workshop on Text Simplification, Accessibility, and Readability (TSAR-2022), The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP 2022).

"Human-Computer Interaction and Automatic Text Simplification: Understanding the Perspective of Deaf and Hard of Hearing Users." September 2021. Invited Keynote Speaker, the First Workshop on Current Trends in Text Simplification (CTTS), in conjunction with the Spanish Society for Natural Language Processing conference (SELPN'21), Online.

"Creating Useful Applications with Imperfect Sign Language Recognition Technologies." August 2020. Invited Keynote Speaker, Sign Language Recognition Translation & Production (SLRTP) Workshop, in conjunction with the European Conference on Computer Vision (ECCV), Online.

"Human-Centered AI to Benefit People who are Deaf and Hard of Hearing." June 2019. Invited Speaker, Research Experiences for Undergraduates Site in Computational Sensing for Human-Centered AI, Rochester Institute of Technology, Rochester, NY, USA.

"Creating Useful Applications with Imperfect Sign Language Recognition Technologies." May 2019. Invited Speaker, Automatic Recognition and Analysis of American Sign Language Workshop, Center for Gesture Sign and Language, The University of Chicago, Chicago, IL, USA.

"Panel: Privacy, Ethics & People with Disabilities in the Age of AI." March 2019. Invited Speaker and Panelist, CSUN Assistive Technology Conference, Anaheim, CA, USA.

"Learning from Human Movements to Create Accurate Sign Language Animations." February 2019. Invited Speaker, Microsoft AI for Accessibility Sign Language Recognition & Translation Workshop, Microsoft Research, Redmond, WA, USA.

"Behavioral Changes in Speakers who are Automatically Captioned in meetings with Deaf or Hard-of-Hearing Peers." November 2018. Invited Speaker, Language Science Research Mixer, Rochester Institute of Technology, Rochester, NY.

Panelist, "Strategies for Working with the National Science Foundation," Gleason College of Engineering (GKCOE) Research Retreat, Rochester Institute of Technology, Xerox Auditorium, June 6, 2018.

"Evaluating the Efficacy of Automatic Speech Recognition for Live Captioning for Deaf and Hard of Hearing Users." April 2018. Invited Speaker, Language Science Research Mixer, Rochester Institute of Technology, Rochester, NY.

"Linguistic and Assistive Technologies for People with are Deaf and Hard of Hearing." September 2017. Invited Speaker for the inaugural "Hot Topics" speaker series for the RIT-RISE Scientists in Training Program for Deaf and Hard-of-Hearing Undergraduates at the Rochester Institute of Technology.

"Linguistic and Assistive Technologies for People with are Deaf and Hard of Hearing." April 2017. Invited Keynote Speaker for GCCIS Research Showcase at the Rochester Institute of Technology.

- “Learning from Human Movements to Create Accurate Sign Language Animations.” March 2017. Invited Speaker for the inaugural “Move 78” seminar on artificial intelligence at Rochester Institute of Technology.
- “Accessibility in U.S. Computing Degrees.” November 2016. Invited Speaker as part of a panel on embedding accessibility in STEM education, White House Disability Inclusive Technology Summit, Organized by the American Association of People with Disabilities (AADP) and the White House, Washington, DC.
- “Ethical Inclusion of People with Disabilities through Undergraduate Computing Education” September 2016. Cultivating Cultures for Ethical STEM Principal Investigator Meeting, National Science Foundation, Washington, DC, USA, September 15-16, 2016.
- “Accessible Computing Research for Users who are Deaf and Hard of Hearing.” July 2016. University of Washington Computer Science and Engineering / Microsoft Research Summer Institute, Union, WA, USA.
- “Accessibility in Academia: What’s happening? How can we change?” April 2016. Invited Speaker, TeachAccess Kickstart Workshop, Yahoo! headquarters, Sunnyvale, CA.
- “Comparing Methods of Providing Feedback for Student Videos of American Sign Language.” November 2015. Invited Speaker, Language Science Research Mixer, Rochester Institute of Technology, Rochester, NY.
- “Learning to Generate Understandable Animations of American Sign Language.” September 2015. Invited Speaker, Seminar, Center for Imaging Science, Rochester Institute of Technology, Rochester, NY. <https://youtu.be/pcwXQ9WYKh8>
- “Learning to Generate Understandable Animations of American Sign Language.” May 2015. Invited Speaker, Seminar, Ph.D. Program in Computing and Information Sciences, Rochester Institute of Technology, Rochester, NY.
- “Learning to Generate Understandable Animations of American Sign Language.” April 2015. Invited Speaker, Seminar, Office of the Associate Dean for Research, National Technical Institute for the Deaf, Rochester Institute of Technology, Rochester, NY.
- “Conducting Experiments with People Who are Deaf to Evaluate ASL Technologies.” April 2015. Invited Speaker, Seminar, SIGCHI Chapter at RIT, Rochester, NY.
- “Learning to Generate Understandable Animations of American Sign Language.” December 2014. Invited Speaker, Seminar, Department of Computer Science, University of Rochester, Rochester, NY.
- “Learning to Generate Understandable Animations of American Sign Language.” November 2014. Guest Lecture, HIST-330: “Deafness and Technology,” Department of History, College of Liberal Arts, Rochester Institute of Technology (RIT), Rochester, NY.
- “Learning to Generate Understandable Animations of American Sign Language.” November 2014. Invited Speaker, Seminar, Center for Language and Speech Processing at Johns Hopkins University, Baltimore, MD.
- “Learning to Generate Understandable Animations of American Sign Language.” February 2014. Invited Speaker, School of Communication and Information Sciences, Rutgers University, New Brunswick, NJ.
- “Automatically Generating Understandable Animations of American Sign Language.” May 2013. Invited Speaker, Colloquium, Graduate Program in Linguistics, The Graduate Center, City University of New York.
- “Automatically Generating Understandable Animations of American Sign Language.” March 2013. Invited Speaker, Monthly Lecture Series, International Linguistics Association, New York, NY.
- “Automatically Generating Understandable Animations of American Sign Language.” July 2012. Invited Speaker, Summer Academy Colloquium, Department of Computer Science & Engineering, University of Washington, Seattle, WA.
- “Generating Linguistically Accurate and Understandable Sign Language Animations.” January 2012. Invited Speaker, Department of Linguistics, Montclair State University, Montclair, NJ, USA.
- “Design, Accessibility, Code: Three Perspectives on the Web. Part 2: Accessibility.” December 2011. Invited Speaker, “Tech Tuesday” Speaker Series, Center for Teaching and Learning, Queens College, The City University of New York, New York, NY, USA.

- “Learning to Produce Accurate and Understandable Sign Language Animations.” November 2011. Invited Speaker, Columbia Linguistics Society, Columbia University, New York, NY, USA.
- “Learning to Produce Accurate and Understandable Sign Language Animations.” October 2011. Invited Speaker, School of Computing, University of Dundee, Scotland, United Kingdom.
- “Cyclic Data-Driven Research on American Sign Language Animation.” January 2011. Invited Keynote Speaker, International Workshop on Sign Language Translation and Avatar Technology (SLTAT), Federal Ministry of Labor and Social Affairs, Berlin, Germany.
- “Linguistic and Assistive Technology for People with Disabilities.” February 2011. Guest Lecture, Computer Science 87100, “Research at CUNY,” Ph.D. Program in Computer Science, The Graduate School and University Center, The City University of New York, New York, NY, USA.
- “Experimental HCI Research with People with Disabilities: Case studies from the LATLab at CUNY.” November 2010. Guest Lecture, Library Sciences 754, “Human Computer Interaction,” Graduate School of Library and Information Sciences, Queens College, The City University of New York, NY, USA.
- “A Motion-Capture Corpus of American Sign Language for Generation Research.” December 2009. CUNY-NLP Seminar Series, NLP at CUNY: Computational Linguistic Research Community, Graduate Center, The City University of New York, New York, NY, USA.
- “Sign Language Animation: Making Information Accessible for People who are Deaf.” November 2009. Sigma Xi Scientific Research Society Faculty Research Presentation, Queens College, The City University of New York, Flushing, NY, USA.
- “Generating Animations of American Sign Language Based on Data from Native Signers.” June 2009. Invited Speaker, The Haskins Laboratories at Yale University, New Haven, CT, USA.
- “A Linguistic Timing Model for Animations of American Sign Language.” February 2009. Perceptual Science Speaker Series, Center for Cognitive Science (RuCCS) and IGERT: Interdisciplinary Training Program in Perceptual Science, Rutgers University, New Brunswick, NJ, USA.
- “A Linguistically Motivated Model for Speed and Pausing in Animations of American Sign Language.” September 2008. CUNY Psycholinguistics “Supper” Speaker Series, Graduate Program in Linguistics, The Graduate School and University Center, The City University of New York, New York, NY, USA.
- “ASL Generation” and “Evaluation of ASL Systems.” March 2008. Guest Lecture, Computer Science 84010, “Computational Linguistics,” Ph.D. Program in Computer Science and Graduate Program in Linguistics, The Graduate School and University Center, The City University of New York, NY, USA.
- “Linguistic and Assistive Technology for Users with Disabilities.” March 2008. Guest Lecture, Computer Science 87100, “Research at CUNY,” Ph.D. Program in Computer Science, The Graduate School and University Center, The City University of New York, New York, NY, USA.
- “Assistive Technology for the Deaf: American Sign Language Machine Translation.” November 2006. Guest Lecture, Computer Science 87100, “Research at CUNY,” Ph.D. Program in Computer Science, The Graduate School and University Center, The City University of New York, New York, NY, USA.
- “Assistive Technology for the Deaf: American Sign Language Machine Translation.” October 2006. Colloquium, Ph.D. Program in Computer Science, The Graduate School and University Center, The City University of New York, New York, NY, USA.
- “Representing American Sign Language Classifier Predicates Using Spatially Parameterized Planning Templates.” August 2006. Science of Learning Symposium on Generalization of Knowledge, The Institute of Cognitive Science, University of Colorado, Boulder, CO, USA.
- “Assistive Technology for the Deaf: American Sign Language Machine Translation.” April 2006. Seminar, Harvard-MIT Division of Health Sciences & Technology and the MIT Department of Electrical Engineering & Computer Science, Cambridge, MA, USA.
- “Assistive Technology for the Deaf: American Sign Language Machine Translation.” April 2006. Seminar, Center for Language and Speech Processing, Johns Hopkins University, Baltimore, MD, USA.

Teaching Experience and Curriculum Design

MS Human Computer Interaction Capstone Proposal, HCIN-794, Human Computer Interaction Program in the Information Sciences and Technologies Department, Golisano College of Computer and Information Sciences, Rochester Institute of Technology. Course created: Spring 2017. Course taught: Fall 2017, Fall 2018, Fall 2019. Students design a proposal for a capstone project to apply the theories and methodologies to a problem in the HCI domain. Students working through the guidance of the instructor, investigate a problem space, perform a literature review, develop the problem statement, write a proposal for how they intend to design and implement a solution, and communicate the proposal to potential capstone committee members.

Research in Accessibility, ISTE-462, Human-Centered Computing undergraduate program in the Information Sciences and Technologies Department, Golisano College of Computer and Information Sciences, Rochester Institute of Technology. Course designed: Spring 2017. Students dive into cutting edge research in the field of computer accessibility and assistive technology, by reading, presenting, and discussing research literature from major conferences and journals in the field. Students learn about recent developments and ongoing research efforts in accessibility – and how to synthesize the results from research publications in a literature review.

Designing the User Experience, ISTE-260, Information Technology undergraduate program in the Information Sciences and Technologies Department, Golisano College of Computer and Information Sciences, Rochester Institute of Technology. Course taught: Spring 2015, Spring 2016, Spring 2018, Spring 2019, and Spring 2020. Students learn user-centered design principles and explore Human Computer Interaction (HCI) methods that span the development lifecycle from requirements analysis to creating the product vision through system prototyping and usability testing.

Foundations of Human-Computer Interaction, HCIN-610, Human Computer Interaction Program in the Information Sciences and Technologies Department, Golisano College of Computer and Information Sciences, Rochester Institute of Technology. Course taught: Fall 2014, Fall 2015, Fall 2016. Course re-designed for delivery via asynchronous video lectures in a seven-week online format: Spring 2017. Students are introduced to human-computer interaction design principles, key concepts in cognitive psychology, design and evaluation techniques, and accessible design for people with disabilities.

Human-Computer Interaction and Accessibility, CSci-381/780, Computer Science Department, CUNY Queens College. Course created and taught: Fall 2010. Students are introduced to human-computer interaction design principles, conduct of experimental studies involving human subjects, research methods and paradigms in human-computer interaction, and accessible design for people with disabilities.

Honors Seminar: A City for Everyone: Science and Technology in NYC Benefiting People with Disabilities, CUNY Queens College / Macaulay Honors College. Course created: Fall 2007. Taught: Fall 2007, Fall 2008, Fall 2009, Fall 2010, Fall 2011, and Fall 2012. Undergraduate Honors College students learn about the life experiences of people with disabilities, current trends in assistive technology, and introductory computing concepts. Readings and in-class discussion explore the legal, medical, social, educational, cultural, and ethical issues surrounding technology and people with disabilities.

Language Technology: Speech and Language Processing, cross-listed between the Graduate Program in Linguistics and the Doctoral Program in Computer Science, CUNY Graduate Center. Course materials created: Spring 2009. Course taught: Spring 2009, Spring 2010, Spring 2011, Spring 2012. PhD students in Linguistics and in Computer Science are introduced to computational linguistics concepts, speech and language processing technologies, and research areas in the field of Natural Language Processing.

Methods in Computational Linguistics I, Graduate Program in Linguistics, CUNY Graduate Center. Course materials created: Fall 2011. Course taught: Fall 2011, Fall 2013. MA and PhD students in Linguistics are introduced to the Python programming language and key programming techniques used in computational linguistics research.

User-Interface Design and Accessibility, CSC-87100, Computer Science Ph.D. Program, CUNY Graduate Center. Course created and taught: Fall 2007. PhD students in Computer Science are introduced to human-computer interaction and assistive technology for people with disabilities, applications of computer research to problems in accessibility, and experimental research with human subjects.

Artificial Intelligence, CSci-363, CUNY Queens College. Course materials created and taught: Spring 2007. In this upper-level elective course, senior undergraduate students and masters students in computer science were exposed to foundational concepts and techniques in the field of artificial intelligence.

Data Structures, CSci-313, CUNY Queens College. Course materials created: Fall 2006. Taught: Fall 2006, Spring 2007, Fall 2007, Spring 2008, Fall 2008. Undergraduate students with a major or minor in computer science take this course as part of the core curriculum; it is a prerequisite for most upper-level courses.

Introduction to Artificial Intelligence, CSE-391, Department of Computer Science, University of Pennsylvania, Created and taught one-third of course lectures: Spring 2004, Spring 2005.

Information Technology and Its Impact on Society, CSE-100, Department of Computer Science, University of Pennsylvania, Created and taught recitation/laboratory section of the course: Fall 2003. Non-science students learn computing and Internet technology concepts, and they explore issues in electronic privacy and security, intellectual property, societal changes relating to information technology, and other ethical issues in cyberspace.

Student Research Advisement

I have supervised the research of **over 130 students** during my career, including over 60 women, over 52 Deaf or Hard of Hearing (DHH) individuals, and over 23 AALANA students. Students I have supervised include 16 PhD students (as primary advisor), 40+ masters students, 65+ undergraduate students, and 11 high school students.

PhD advisor of the first two Deaf PhD recipients in the history of Rochester Institute of Technology.

Ph.D. Student Advisees

Ph.D. Student Advisees who have passed Qualifying Examination:

Caluã de Lacerda Pataca, Ph.D. advisee, Computing & Information Sciences, RIT. Aug. 2021 to Present.

Former Ph.D. Student Advisees:

Saad Hassan, Ph.D. advisee, Computing & Information Sciences, RIT. Aug. 2019 to 2023.

- After graduation: Assistant Professor, Tulane University.
- Recipient of Duolingo Dissertation Research Award, 2022.

Oliver Alonzo, Ph.D. advisee, Comp. & Info. Sciences, RIT. Aug. 2018 to 2023.

- After graduation: Assistant Professor, DePaul University.

Abraham Glasser, Ph.D. advisee, Comp. & Info. Sciences, RIT. Aug. 2017 to 2023.

- One of the first two Deaf PhD graduates in RIT history.
- After graduation: Assistant Professor, Gallaudet University.
- Best Poster Award, ACM VRST Conference, 2019.
- First Place, Student Research Competition, ACM CHI Conference, 2019.
- Recipient of Honorable Mention in NSF Graduate Research Fellowship competition, 2018.

Matthew Seita, Ph.D. advisee, Comp. & Info. Sciences, RIT. Aug. 2017 to 2023.

- One of the first two Deaf PhD graduates in RIT history.
- After graduation: Researcher, Gallaudet University.
- Best Paper Honorable Mention, ACM CHI Conference, 2022.
- Recipient of NSF Graduate Research Fellowship, 2018.

Akhter Al Amin, Ph.D. advisee, Computing & Information Sciences, RIT. Aug. 2019 to 2023.

- After graduation: Software Engineer, Accessibility, Amazon.
- Finalist for Best Poster Award, iConference, 2021.

Sedeeq Alkhazraji, Ph.D. advisee, Comp. & Info. Sci., RIT. Aug. 2016 to Dec. 2021.

- After graduation: User Experience Researcher at Google.
- Best Paper Award, Universal Access in Human Computer Interaction (UAHCI) Conference, 2019.
- Best Paper Award, ACM ASSETS Conference, 2018.

- Larwan Berke, Ph.D. advisee, Comp. & Info. Sciences, RIT. Aug. 2015 to Dec. 2020.
- Pre-Tenure Faculty Member, Information Technology, Gallaudet University, Fall 2019.
 - Best Paper Award, ACM ASSETS Conference, 2018 and 2019.
 - Best Paper Honorable Mention, ACM CHI Conference, 2018.
 - Recipient of Microsoft Research Dissertation Grant, 2019.
 - Recipient of Google Lime Scholarship, 2019.
 - Recipient of NSF Graduate Research Fellowship, 2017.
- Khaled Albusays, Ph.D. advisee, Comp. & Info. Sciences, RIT. Aug. 2016 to Nov 2020.
- After graduation: Researcher at North Carolina A&T State University
- Sushant Kafle, Ph.D. advisee, Computing & Info. Sciences, RIT. Aug. 2015 to Dec. 2019. Graduated.
- After graduation: Software Engineer in Research, Google in Mountain View, California.
 - Best Paper Award, ACM ASSETS Conference, 2017 and 2018.
 - Best Paper Honorable Mention, ACM CHI Conference, 2018.
- Paula Garcia, Ph.D. advisee, Computing & Info. Sciences, RIT. June 2018 to Dec. 2019. Graduated.
- After graduation: User Experience Researcher, Google in Mountain View, California.
- Hernisa Kacorri, Ph.D. advisee, The Graduate Center, CUNY. Aug 2011 to Feb. 2016. Graduated.
- After graduation: Post-Doctoral Research Fellow at Carnegie Mellon University.
 - Since Fall 2017: Assistant Professor, University of Maryland, in College Park, Maryland.
- Allen Harper, Ph.D. advisee, The Graduate Center, CUNY. Nov 2007 to June 2015. Graduated.
- After graduation: Visiting Assistant Professor at Bowdoin College in Brunswick, Maine.
- Josh Waxman, Ph.D. advisee, The Graduate Center, CUNY. Feb 2008 to June 2014. Graduated.
- After graduation: Tenure-track Faculty at Yeshiva University in New York, NY.
- Pengfei Lu, Ph.D. advisee, The Graduate Center, CUNY. Aug. 2007 to Oct. 2013. Graduated.
- After graduation: Research Engineer at Intel in San Jose, California.
 - Since Spring 2018: Research Engineer at Pearson in San Jose, California.
- Lijun Feng, Ph.D. advisee, The Graduate Center, CUNY. April 2007 to Sept. 2010. Graduated.
- After graduation: Researcher at Standard and Poor's in New York, New York.

Ph.D. Thesis and Exam Committees (does not include Ph.D. student advisees listed above)

- Laleh Nourian, Ph.D. research potential assessment (qualifier) committee, RIT. Qualifier defended: May 2022.
- Rajesh Titung, Ph.D. research potential assessment (qualifier) committee, RIT. Qualifier defended: May 2022.
- Murtaza Tamjeed, Ph.D. research potential assessment (qualifier) committee, RIT. Qualifier defended: May 2021.
- Jagannadh Pariti, Ph.D. thesis committee, RIT. Research Potential Assessment (qualifier) Defended: May 2020.
- Kushal Kafle, Ph.D. chair of thesis committee, Imaging Science, RIT. Defended and graduated: February 2020.
- Jade Myers, Ph.D. research potential assessment (qualifier) committee, RIT. Qualifier Defended: May 2019.
- Carlos Tejada, Ph.D. research potential assessment (qualifier) committee, RIT. Qualifier Defended: May 2018.
- Ben Gorman, Ph.D. thesis committee, University of Dundee, Scotland. Defended and graduated: December 2017.
- Noella Kolash, Ph.D. thesis committee, RIT. Qualifier defended May 2016. Served on committee until June 2020.
- Robbie Jimerson, Ph.D. research potential assessment (qualifier) committee, RIT. Qualifier Defended: May 2016.
- Alan J. Lambie, Ph.D. research potential assessment (qualifier) committee, RIT. Qualifier Defended: May 2016.
- AbdulRhman Alkhanifer, Ph.D. thesis committee, RIT. Defended and graduated: September 2015.
- Sumon Azhar, Ph.D. thesis committee, The Graduate Center, CUNY. Defended and graduated: August 2015.
- Taylor Cassidy, Ph.D. thesis committee, The Graduate Center, CUNY. Defended and graduated: April 2014.
- Edgar Troudt, Ph.D. thesis committee, The Graduate Center, CUNY. Defended and graduated: December 2013.
- Rachel Adler, Ph.D. thesis committee, The Graduate Center, CUNY. Defended and graduated: January 2012.
- Kyle Duarte, Ph.D. thesis committee, University of South Brittany, France. Defended and graduated: June 2012.
- Tiziana Ligorio, Ph.D. thesis committee, The Graduate Center, CUNY. Defended and graduated: June 2011.

Qi Li, Ph.D. qualifying exam committee, The Graduate Center, CUNY. Exam: June 2012.

David Guy Brizan, Ph.D. qualifying exam committee, The Graduate Center, CUNY. Exam: August 2011.

Zheng Chen, Ph.D. qualifying exam committee, The Graduate Center, CUNY. Exam: February 2009.

Visiting Ph.D. Student Research Advisees (publication co-authorship noted below)

Sarah Ebling, Computational Linguistics Ph.D. Student, University of Zurich, visited March 2015 to August 2015.

- Co-author, e.g. of article in the *ACM Transactions on Accessible Computing* journal in 2017.

Research Staff Advisees

Jonathan Lamberton, Research Assistant, Research Foundation of CUNY. 2008 to 2014.

Miriam Morrow, Research Assistant, Research Foundation of CUNY. 2013 to 2014.

Masters Project or Thesis Advisees (publication co-authorship noted below)

Adrita Arefin, Human Computer Interaction M.S. student, RIT. 2021 to 2022. Proposal 2022.

Sunnihith Manduva, Human Computer Interaction M.S. student, RIT. 2019 to 2022. Proposal 2020.

Vaishnavi Mande, Human Computer Interaction M.S. student, RIT. 2019 to 2020. Defended: Nov. 2020.

- Co-author, e.g. of article in the *ACM Transactions on Computing Education* journal in 2020.

Ruiwen Fan, Human Computer Interaction M.S. student, RIT. 2018 to 2020. Defended: Nov. 2020.

Tomomi Takeuchi, Human Computer Interaction M.S. student, RIT. 2016 to 2020. Defended: Nov. 2020.

Rachel Celestine, Human Computer Interaction M.S. student, RIT. 2018 to 2020. Defended: May 2020.

- Co-author of article in the *ACM Transactions on Computing Education* journal in 2020.

Dishant Shah, Human Computer Interaction M.S. student, RIT. 2018 to 2020. Defended: May 2020.

Alex Kramer, Information Sciences & Tech. M.S. student, RIT. 2018 to 2020. Defended: May 2020.

Harshad Golwalkar, Human Computer Interaction M.S. student, RIT. 2015 to 2020. Defended: May 2020.

Aakash Mahdi, Human Computer Interaction M.S. student, RIT. 2018 to 2019. Defended: December 2019.

Peter Yeung, Human Computer Interaction M.S. student, RIT. 2017 to 2019. Defended: May 2019.

- Co-author, e.g. of paper in the *ACM SIGACCESS Conference on Computing Accessibility (ASSETS'18)*.

Sree Pillutla, Human Computer Interaction M.S. student, RIT. 2015 to Present. Defended: August 2018.

- Co-author of article in the *ACM Transactions on Accessible Computing* journal in 2017.

Spandana Jaggumantri, Human Computer Interaction M.S. student, RIT. 2017 to 2018. Defended: May 2018.

Abhishek Kannekanti, Human Computer Interaction M.S. student, RIT. 2017 to 2018. Defended: May 2018.

- Best Paper Award, *Universal Access in Human Computer Interaction (UAHCI) Conference*, 2019.
- Co-author of paper in the *Universal Access in Human Computer Interaction* conference in 2019.

Abhishek Mhatre, Human Computer Interaction M.S. student, RIT. 2015 to 2017. Defended: December 2017.

- Co-author of article in the *Journal on Technology and Persons with Disabilities* in 2019.

Utsav Shah, Human Computer Interaction M.S. student, RIT. 2015 to 2017. Defended: December 2017.

- Co-author of paper in the *Universal Access in Human Computer Interaction* conference in 2019.

Mackenzie T. Willard, Information Sciences & Tech. M.S. student, RIT. 2014 to 2017. Defended: Dec. 2017.

- Co-author, e.g. of article in the *ACM Transactions on Accessible Computing* journal in 2017.

Erroyl Rolle, Information Sciences & Technologies M.S. student, RIT. 2014 to 2017. Defended: December 2017.

Kasmira Patel, Human Computer Interaction M.S. student, RIT. 2014 to 2017. Defended: June 2017.

- Co-author, e.g. of article in the *ACM Transactions on Accessible Computing* journal in 2017.

Jigar Gohel, Information Sciences & Technologies M.S. student, RIT. 2015 to 2016. Defended: December 2016.

- Co-author of article in the *Journal on Technology and Persons with Disabilities* in 2018.

Goudam Muralitharan, Human Computer Interaction M.S. student, RIT. 2014 to 2016. Defended: September 2016.

Dhananjai Hariharan, Human Computer Interaction M.S. student, RIT. 2014 to 2016. Defended: May 2016.

- Co-author, e.g. of article in the *ACM Transactions on Accessible Computing* journal in 2017.

Brian Penly, Human Computer Interaction M.S. student, RIT. 2014 to 2016. Defended: May 2016.

- Co-author, e.g. of article in the *ACM Transactions on Accessible Computing* journal in 2017.

Jackson Yeh, Computer Science M.S. student, Queens College, CUNY. Graduated: 2010.

Masters Student Research Advisees (prior to capstone proposal or capstone advised by others)

Michelle Olson, Human Computer Interaction, M.S. student, RIT, 2023 to Present.

Matthew Watkins, Human Computer Interaction M.S. student, RIT. 2020 to Present.

- Co-author, e.g. of paper in the *ACM CHI Conference on Human Factors in Computing Systems* in 2022.

Abhay Rajendra Dixit, Computer Science M.S. student, RIT. 2020 to 2021.

Becca Dingman, Human Computer Interaction M.S. student, RIT. 2019 to 2021.

- Co-author, e.g. of paper in the *ACM CHI Conference on Human Factors in Computing Systems* in 2020.

Sarah Andrew, Human Computer Interaction M.S. student, RIT. 2020 to 2021.

- Co-author, e.g. of paper in the *ACM Web for All conference* in 2020.

Qiwen Zhao, Human Computer Interaction M.S. student, RIT. 2019 to 2020.

- Co-author, e.g. of article in the *ACM Transactions on Computing Education* journal in 2020.

Eric A. Tong, School of Individualized Study M.S. student, RIT. 2019 to 2021.

Jinlan Li, School of Individualized Study M.S. student, RIT. 2020.

Shuishi Fang, Information Sciences and Technologies M.S. student, RIT. 2018 to 2019.

Nayeri Jacobo, Information Sciences and Technologies M.S. student, RIT. 2019.

Taylor Gotfrid, Human Computer Interaction M.S. student, RIT. 2017 to 2019.

- Co-author of article in the *ACM Transactions on Computing Education* journal in 2020.

Sheshagiri Anupama Garani, Information Sciences and Technologies M.S. student, RIT. 2017 to 2018.

Aditya Padhye, Information Sciences and Technologies M.S. student, RIT. 2016 to 2017.

Masters Student Thesis/Project Committees (does not include research advisees above)

Emily Lederman, Human Computer Interaction M.S. student, RIT. 2021 to Present. Proposal expected.

Aniket Tikotkar, Human Computer Interaction M.S. student, RIT. 2021 to 2022. Defended: July 2022.

Lingyun (Julie) Zhu, Human Computer Interaction M.S. student, RIT. 2019 to 2020. Defended: November 2020.

Tanvi Kulkarni, Human Computer Interaction M.S. student, RIT. 2019 to 2020. Defended: March 2020.

Nidhi Palan, Human Computer Interaction M.S. student, RIT. 2014 to 2019. Defended: November 2019.

- Research advisee 2014 to 2017, member of student's capstone project committee 2019.
- Co-author, e.g. of paper at *ACM Technical Symposium on Computer Science Education (SIGCSE'18)*.

Amelia Keller, Human Computer Interaction M.S. student, RIT. Thesis committee. Proposal accepted.

Yue Zhang, Human Computer Interaction M.S. student, RIT. Capstone project committee. Defended: August 2018.

Sangram Pawar, Human Computer Interac. M.S. student, RIT. Capstone project committee. Defended: May 2018.

Tangmay Songade, Human Comp. Interact. M.S. student, RIT. Capstone project committee. Defended: Dec 2017.

Andrew Fagan, Human Computer Interaction M.S. student, RIT. Capstone project committee. Defended: Dec 2016.

Ashley Miller, Human Computer Interaction M.S. student, RIT. Capstone project committee. Defended: Dec 2016.

Alessandra Brindao, Human Computer Interaction M.S. student, RIT. Thesis committee. Defended: May 2016.

Undergraduate Student Research Advisees (publication co-authorship noted below)

Toni D'aurio, ASL English Interpreting, B.A. student, NTID/RIT, 2023 to Present.

Russell Lee, Human Centered Computing, B.S. student, RIT, 2023 to Present.

Nathan Tinker, ASL English Interpreting, B.A. student, NTID/RIT, 2022 to 2023.

Beck Dean, ASL English Interpreting, B.A. student, NTID/RIT, 2023.

Velvet Howland, ASL English Interpretation, B.A. student, NTID/RIT. 2021 to 2022.

Briana Davis, ASL English Interpretation, B.A. student, NTID/RIT. 2021 to 2022.

Diego Navarro, ASL English Interpretation, B.A. student, NTID/RIT. 2021 to 2022.

- Co-author, e.g. of paper in the *ACM SIGACCESS Conference on Computers and Accessibility* in 2022.

Max Shengelia, Web and Mobile Computing B.S. student, RIT. 2021 to 2022.

Alexis Gordon, ASL English Interpretation, B.A. student, NTID/RIT. 2020 to 2021.

- Co-author, e.g. of paper in the *ACM CHI Conference on Human Factors in Computing Systems* in 2022.

Megan Gross, ASL English Interpretation, B.A. student, NTID/RIT. 2020 to 2021.

Ben Leyer, ASL English Interpretation, B.A. student, NTID/RIT. 2019 to 2022.

Kira Hart, ASL English Interpretation, B.A. student, NTID/RIT. 2020 to 2021.

- Co-author, e.g. of paper in the *ACM CHI Conference on Human Factors in Computing Systems* in 2022.

Jacob Schwall, New Media Marketing, B.S. student, RIT. 2020 to 2021.

Cashmere Pascual, Psychology, B.S. student, RIT. 2020 to 2021.

Taylor Harris, ASL English Interpretation, B.A. student, NTID/RIT. 2020 to 2021.

Bahdi Ghimire, Business, undergraduate student, NTID/RIT. 2020 to 2021.

Sarah Morgenthal, ASL English Interpretation, B.A. student, NTID/RIT. 2019 to 2021.

Miko Arayata, Design and Imaging Technology, undergraduate student, NTID/RIT. 2018 to 2021.

Cole Inniss, Human Centered Computing, B.S. student, RIT. 2020.

Daniel Boaitay, Computer Science, B.S. student, RIT. 2020.

Ankita Gopal, undergraduate student, RIT. 2020.

Chen Guo, Applied Computer Technology, undergraduate student, NTID/RIT. 2020.

Konce Quispe, Computer Science, B.S. student, RIT. 2019 to 2020.

Amelia Milling, Visuam Media, B.A. student, RIT. 2020.

Nicole Baldwin, School of Individualized Study, B.A. student, RIT. 2019.

Kellie Mullaney, ASL English Interpretation, B.A. student, NTID/RIT. 2019.

Jennifer Meyers, School of Individualized Study, B.A. student, RIT. 2019.

Gillian Trommer, ASL English Interpretation, B.A. student, NTID/RIT. 2018 to 2019.

Jessica Li, undergraduate student, Vassar College. Summer 2019.

- Co-author of article in the *Journal on Technology and Persons with Disabilities* in 2020.

Matthew Luetzgen, undergraduate student, Indiana University, Summer 2019.

- Co-author of article in the *Journal on Technology and Persons with Disabilities* in 2020.

Neckeya Brown, Occupational Studies, undergraduate student, NTID/RIT. 2018 to 2019.

Marlena Rauber, Administration Support Technology, undergraduate student, NTID/RIT. 2018 to 2019.

Nicholas Rudar, Marketing, B.S. degree student, NTID/RIT. 2018 to 2019.

GuanZi Min, Applied Computer Technology, undergraduate student, NTID/RIT. 2018 to 2019.

Jeremy Sheffield, ASL English Interpretation, B.A. student, NTID/RIT. 2017 to 2019.

Keith Cahalane, Sustainable Construction, undergraduate student, NTID/RIT. 2018 to 2019.

Dara Levy, Dietetics and Nutrition, undergraduate student, NTID/RIT. 2018 to 2019.

Andre Webster, Electrical Engineering, undergraduate student, NTID/RIT. 2018 to 2019.

Rahul Shah, Human-Centered Computing, B.S. student, RIT. 2017 to 2018.

David Hoppough, ASL English Interpretation, B.A. student, NTID/RIT. 2017 to 2018.

Erin Ireland, ASL English Interpretation, B.A. student, NTID/RIT. 2017 to 2018.

Christopher Caulfield, Information Technology B.S. student, RIT. 2015 to 2017.

- Co-author of paper at *ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'17)*.
Anmol Kaur, Laboratory Science Technology, undergraduate student, RIT. 2016 to 2017.
- Co-author on poster presented at *Effective Access Technologies Conference* in 2017.
Aiko Resendiz, ASL English Interpretation, B.A. student, NTID/RIT. 2016 to 2017.
- Co-author on poster presented at *Effective Access Technologies Conference* in 2017.
Ben Kassman, Math and Computer Science, B.S. student, Lewis and Clark College. Summer 2017.
- Published research at the *2018 Emerging Researchers National (ERN) Conference in STEM* conference
Jason Antal, Information Technology and Government, B.S. student, Gallaudet University. Summer 2017.
- Jaron Rehkop, Information Technology, B.S. student, Gallaudet University. Summer 2017.
- Catherine Seita, undergraduate student, Cornell University. Summer 2017.
- Afifi Ishak, Undergraduate student, RIT. 2016 to Present.
- Jason Durek, Computer Science B.S. student, RIT. 2015 to 2017.
- Kellie Menzies, Anthropology and Museum Studies, B.A. student, RIT. 2015 to 2016.
- Co-author of article in the *ACM Transactions on Accessible Computing* journal in 2017.
Kevin Rathbun, Computer Engineering, B.S. student, University at Buffalo. Summer 2016.
- Co-author of article in the *Journal on Technology and Persons with Disabilities in 2017*.
Abigail Spring, Information Technology, B.S. student, RIT. Summer 2016.
- Paul Bayruns, Mathematics, B.S. student, Rowan University. Summer 2016.
- Daniel Saavedra, Information Technology, B.S. student, RIT. Summer 2016.
- Christine Singh, Electrical Engineering, B.S. student, RIT. Summer 2016.
- Adrienne Howad, ASL English Interpretation, B.A. student, RIT. 2016.
- Caleb Van Der Werf, Game Design and Development B.S. student, RIT. 2015 to 2016.
- Evans Seraphin, Information Technology B.S. student, RIT. Spring 2015.
- Priscilla Diaz, CUNY Queens College, Spring 2014.
- Molly Sachs, Gallaudet University. 2012 to 2014.
- Fang Zhou Yang, Gallaudet University, Summer 2013.
- Jennifer Marfino, Rochester Institute of Technology, Summer 2013.
- Wesley Clarke, Rochester Institute of Technology, 2011 to 2012.
- Meredith Turteltaub, University of Pennsylvania, 2010 to 2011.
- Rea Bhasin, CUNY Queens College, Fall 2010.
- Amanda Krieger, Gallaudet University, Summer 2009.

High School Student Research Advisees (summer research students)

Kaushik Pillapakkam, Lexington School for the Deaf, Summer 2013.
Christine Singh, Forest Hills High School, 2012 to 2013.
Evans Seraphin, Lexington School for the Deaf, 2012 to 2013.
Fatimah Mohammed, Murray Bergtraum High School, Summer 2012.
Giovanni Moriarty, P.S. 47 ASL and English Secondary School, 2011 to 2012.
Kenya Bryant, Murray Bergtraum High School, Summer 2011.
Raymond Ramirez, Blind Brook High School, Summer 2011.
Jaime Penzellna, Lexington School for the Deaf, Summer 2010.
Sheldon Clarke, Lexington School for the Deaf, 2009 to 2010.
Kelsey Gallagher, Oyster Bay High School, Summer 2009.
Aaron Pagan, Middle College High School, Summer 2009.

Media Outreach

- RIT University News*, May 8, 2023, “Personal experiences inspire RIT’s first deaf doctoral candidates,” <https://www.rit.edu/news/first-deaf-phd-candidates>
- RIT University News*, Jan. 23, 2023, “‘U.S. News & World Report’ ranks RIT online degree programs among nation’s best,” <https://www.rit.edu/news/us-news-world-report-ranks-rit-online-degree-programs-among-nations-best-0>
- RIT University News*, Dec. 14, 2022, “RIT develops interdisciplinary master’s degree in artificial intelligence,” <https://www.rit.edu/news/rit-develops-interdisciplinary-masters-degree-artificial-intelligence>
- RIT University News*, Oct. 5, 2022, “Researching at the intersection of computing and accessibility,” <https://www.rit.edu/news/researching-intersection-computing-and-accessibility>
- RIT University News*, Aug. 19, 2022, “President Munson calls on RIT community to reinvigorate the campus this academic year,” <https://www.rit.edu/news/president-munson-calls-rit-community-reinvigorate-campus-academic-year>
- RIT University News*, June 9, 2022, “Matt Huenerfauth named dean of Golisano College of Computing and Information Sciences,” <https://www.rit.edu/news/matt-huenerfauth-named-dean-golisano-college-computing-and-information-sciences>
- RIT News and Events Daily*, June 6, 2022, spotlight on Microsoft Accessibility coverage of sign-language personal-assistant project, https://www.rit.edu/ritnews/news_and_events.php?date=06%2F06%2F2022
- RIT University News*, Jan. 31, 2022, “AI research collaboration begins,” <https://www.rit.edu/news/ai-research-collaboration-begins>
- Featured in Microsoft Accessibility Blog, in a May 31, 2022, article entitled “The opportunity at home – can AI drive innovation in personal assistant devices and sign language?” about research with Ph.D. student Abraham Glasser on sign-language interaction with personal assistants. <https://blogs.microsoft.com/accessibility/the-opportunity-at-home-can-ai-drive-innovation-in-personal-assistant-devices-and-sign-language/>
- Featured in *RIT University News*, in the September 21, 2021, issue, in an article entitled “RIT awarded nearly \$2 million for NSF Research Traineeship Program, AWARE-AI,” <https://www.rit.edu/news/rit-awarded-nearly-2-million-nsf-research-traineeship-program-aware-ai>
- Article featured in *RIT News and Events Daily*, in the September 22, 2021, issue.
- Featured in *RIT University News*, in the January 26, 2021, issue, which referred to online programs offered by School of Information in Computing and Information Sciences, in an article entitled “RIT’s online degree programs ranked among nation’s best in 2021,” <https://www.rit.edu/news/rits-online-degree-programs-ranked-among-nations-best-2021>
- Article featured in *RIT News and Events Daily*, in the January 27, 2021, issue.
- Featured in *RIT University News*, in the October 14, 2020, issue, in an article entitled “National Science Foundation Convergence Accelerator awards \$ million grant to team,” <https://www.rit.edu/news/national-science-foundation-convergence-accelerator-awards-1-million-grant-team>
- Featured in *RIT University News*, in the June 30, 2020, issue, in an article entitled “Matt Huenerfauth named director of iSchool in GCCIS,” <https://www.rit.edu/news/matt-huenerfauth-named-director-ischool-gccis>
- Featured in *RIT University News*, in the May 6, 2020, issue, in an article entitled “RIT graduate Peter Yeung found perfect fit within university’s deaf community,” <https://www.rit.edu/news/rit-graduate-peter-yeung-found-perfect-fit-within-universitys-deaf-community>
- Featured in *RIT News and Events Daily*, in the October 18, 2019, issue, in regard a scientific paper being accepted for presentation at the Theoretical issues in Sign Language Research conference in Hamburg, Germany, <https://www.rit.edu/ritnews/nandedaily.php?date=10%2F18%2F2019>

- Featured in RIT University News, in the May 15, 2019, article entitled “RIT research helps artificial intelligence be more accurate, fair and inclusive,” <https://www.rit.edu/news/rit-research-helps-artificial-intelligence-be-more-accurate-fair-and-inclusive>
- Featured in NTID Parent News, in the May 2, 2019, issue, in an article entitled “RIT/NTID provides groundwork for grads moving on to doctoral degree programs,” <https://www.rit.edu/ntid/parentnews/2019/05/02/rit-ntid-provides-groundwork-for-grads-moving-on-to-doctoral-degree-programs/>
- Article featured in *RIT News and Events Daily*, in the May 7, 2019 issue.
- Featured in NTID Alumni News, in the March 13, 2019, issue in an article entitled “RIT/NTID team examines Nicaraguan sign language to determine whether languages change so they are easier to produce or to understand,” <https://www.rit.edu/ntid/alumminews/index.php/2019/03/rit-ntid-team-examines-nicaraguan-sign-language-to-determine-whether-languages-change-so-they-are-easier-to-produce-or-to-understand/>
- Article featured in *RIT News and Events Daily*, in the March 22, 2019 issue.
- Featured in RIT University News, in the November 20, 2018, issue, in an article entitled “Improving ASL Communication,” <https://www.rit.edu/news/improving-asl-communication>
- Article featured in *RIT News and Events Daily*, in the February 25, 2019 issue.
- Featured in *RIT Golisano College of Computing and Information Sciences news*, in a November 27, 2018 story entitled “RIT researcher awarded Best Paper for a record fourth time at premier computing accessibility conference,” <https://www.rit.edu/gccis/news/rit-researcher-awarded-best-paper-record-fourth-time-premier-computing-accessibility-conference>
- Article featured in *RIT News and Events Daily*, in the January 17, 2019 issue
- Featured in *RIT University News*, in the October 18, 2018 issue, in an article entitled “RIT/NTID honors researchers with Sponsored Programs Awards: Recipients recognized for cutting-edge research dedicated to ‘making a difference’,” <http://www.rit.edu/news/story.php?id=68214>
- Featured in *RIT University News*, in the June 18, 2018 issue, in an article entitled “Mapping Artificial Intelligence at RIT,” <http://www.rit.edu/news/story.php?id=67089>
- Article featured in *RIT News and Events Daily*, in the June 19, 2018 issue
- Featured in *Research at RIT*, the research report of the Rochester Institute of Technology, in the Spring 2018 issue, in article entitled “RIT Experts Focus on User-Centered Design to Make Computing Accessible.”
- Article featured in *RIT News and Events Daily*, in the June 7, 2018 issue
- Featured in *Communications of the ACM* (flagship magazine of the Association of Computing Machinery), in the January 2018 issue, in an article entitled “Feeling Sounds, Hearing Sights” about the research at the Linguistic and Assistive Technologies Lab on automatic captioning. <https://doi.org/10.1145/3157075>
- Interviewed on *WXXI Connections* radio program on WXXI public radio broadcasting station in Rochester, NY, on December 18, 2017, in a segment on recent trends in artificial intelligence and its impact on society. <http://wxxinews.org/post/connections-could-artificial-intelligence-help-us-or-destroy-us>
- Recording featured in the January 2, 2018, edition of *RIT News and Events Daily*
- Featured in *BBC Click* video on December 5, 2017, Science and Technology news, British Broadcasting Corporation, in a segment entitled “When Disability Meets Technology,” which demonstrated research on speech recognition tools for meetings for students who are Deaf or Hard of Hearing, with colleagues from NTID, Featured at time 5:09 in video at <https://www.youtube.com/watch?v=RNp4OpToAdQ>
- Video featured in the January 5, 2018, edition of *RIT In The Headlines*
 - Video featured in the December 8, 2017, edition of *RIT News and Events Daily*
- Featured in *RIT University News*, in the November 28, 2017 issue, in an article entitled “RIT researchers make big splash at international computing accessibility conference,” <http://www.rit.edu/news/story.php?id=65131>

Featured in *RIT News and Events Daily*, in the November 17, 2017 issue, in regard to being named an ACM Distinguished Member, <https://www.rit.edu/news/nandedaily.php?date=11%2F17%2F2017>

- Announcement: <https://www.acm.org/media-center/2017/november/distinguished-members-2017>
- Reposted from RIT twitter @RITtigers account on November 8, 2017: “Congratulations to @RITGolisanoCCIS Professor Matt Huenerfauth on being named a 2017 @theofficialacm Distinguished Member for Contributions to Computing! #TigerPride”

Featured in *RIT Golisano College of Computing and Information Sciences news*, in a November 12, 2017 story entitled “RIT researchers make prolific contributions at leading accessibility research conference,” <https://www.rit.edu/gccis/news/rit-researchers-make-prolific-contributions-leading-accessibility-conference>

Featured in the cover story of *The Hearing Journal* in September 2017, in an article entitled “Virtual Reality: The Next Frontier of Audiology.” http://journals.lww.com/thehearingjournal/Fulltext/2017/09000/Virtual_Reality__The_Next_Frontier_of_Audiology.1.aspx

Featured in *PC Magazine* on May 9, 2017, in an article entitled “Augmented Ability: Assistive Tech Gets Smart.” <http://www.pcmag.com/article/353544/augmented-ability-assistive-tech-gets-smart>

Featured in *Slate* on May 17, 2017, in an article entitled “How Movie Magic Could Help Translate for Deaf Students.” http://www.slate.com/articles/technology/future_tense/2017/05/computer_avatars_can_translate_written_spoken_words_into_sign_language.html

- Cross-published in *The Hechniger Report* on May 17, 2017: <http://hechnigerreport.org/movie-magic-used-translate-deaf/>
- Article featured in the June 2017 *SIGCHI edition of the ACM TechNews*. <http://sigchi-technews.acm.org/archives.cfm?fo=2017-06-jun/jun-02-2017.html>
- Article featured in the May 17, 2017, edition of *RIT News and Events Daily*

Featured in *RIT University News*, in the April 26, 2017 issue, in an article entitled “Golisano College faculty and students present computing research at showcase April 28,” <https://www.rit.edu/news/story.php?id=61361>

Featured in *RIT University News*, in the April 6, 2017 issue, in an article entitled “Researchers honored by Rochester Institute of Technology: Reception celebrates funding awards and induction of 11 new ‘PI Millionaires.’” <https://www.rit.edu/news/story.php?id=60786>

Featured in *RIT News and Events Daily*, in the December 9, 2016 issue, in regard to presenting on “Accessibility in U.S. Computing Degrees” at the White House. <https://www.rit.edu/gccis/news/rit-professor-presents-white-house-disability-and-inclusive-technology-summit>

Featured in *RIT Athenaem: News and Insight from Rochester Institute of Technology*, in the December 2016 to January 2017 issue, Volume 8, Number 3, in article entitled “Researchers work to make technology more accessible to all.” <https://www.rit.edu/news/story.php?id=58765>

Featured in video montage in RIT Presidential Spotlight with Dr. Bill Destler, March 7, 2016 edition, in which the President discussed research accomplishments at RIT, <https://youtu.be/02e8MvPQXDU?t=1m35s>

Featured in video montage in *RIT Presidential Spotlight with Dr. Bill Destler*, November 9, 2015 edition, in which the President discussed academic success and research at RIT, <https://youtu.be/u0jKdrQmhSE?t=53s>

Featured in *RIT News and Events Daily*, in the July 2, 2015 issue, in regard to election as vice-chair of the Association of Computing Machinery’s Special Interest Group on Accessible Computing (SIGACCESS).

Featured in *RIT Athenaem: News and Insight from Rochester Institute of Technology*, in the February-March 2015 issue, Volume 6, Number 4, in article entitled “Animation helps Web-based sign language come alive.”

Featured in *Research at RIT*, the research report of the Rochester Institute of Technology, in the Fall/Winter 2014-5 issue, in article entitled “Future of Research.”

Featured in online article from the George Mitchell Scholarship program of the US-Ireland Alliance on July 5, 2013, in article entitled “Matt Huenerfauth -- Film Animation and American Sign Language.”

Featured in *Salute to Scholars* newsletter publication from City University of New York in Spring 2012 in an article entitled “Signposts that Digitally Aid the Deaf.”

Featured in *Kids These Days* radio program on KSKA on August 3, 2011, in segment entitled “Assistive Technology Helping Deaf Students Succeed.”

Featured in the Irish Echo newspaper (national publication aimed at the Irish-American community) on February 23, 2011, as one of the “Top 40 Under 40” young professionals in the United States, with an article about career in computer accessibility and higher education.

Quoted on radio program on WNYC-FM on August 19, 2010, entitled “Signs of Change: Video Chatting Software to Help the Hearing-Impaired.”

Early Professional History (prior to receipt of Ph.D. in 2006)

Teaching Assistant. Computer and Information Science Dept., U. Pennsylvania. Fall 2003 to Spring 2005

Program Manager Intern. Microsoft Corporation, Natural Language Group. Summer 2000, Summer 2001

Research Assistant. Computer and Information Science Department, University of Delaware. 1998 to 2001

Teaching Assistant. Computer and Information Science Department, University of Delaware. Fall 1999

Teaching Assistant. Pennsylvania Governor's School of Excellence for the Sciences. Summer 1999

Professional Memberships

Association for Computing Machinery (ACM)

Special Interest Groups: Special Interest Group on Accessible Computing (SIGACCESS), Special Interest Group on Human-Computer Interaction (SIGCHI), Special Interest Group on Computer Science Education (SIGCSE), Special Interest Group on Information Technology Education (SIGITE), Special Interest Group on Computers and Society (SIGCAS)

ACL Special Interest Group on Speech and Language Processing for Assistive Technologies (SLPAT)