

Matt Huenerfauth
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Academic Position

Professor. Golisano College of Computing and Information Sciences, Rochester Institute of Technology.

Faculty Appointments: Department of Information Sciences and Technologies
Ph.D. Program in Computing and Information Sciences

Focus of Research: Computer accessibility and assistive technology for people with disabilities, human computer interaction, natural language processing, technology for learning American Sign Language, and experimental evaluations of linguistic and assistive technology by people who are Deaf or Hard of Hearing (DHH).

Professional History

Professor. Golisano College of Computing & Information Sciences, RIT. July 2017 to Present

Associate Professor. Golisano College of Computing & Information Sciences, RIT. August 2014 to July 2017

Associate Dean. DMNS, Queens College, City University of New York. June 2012 to August 2014

Associate Professor. Queens College, City University of New York. January 2012 to August 2014

Assistant to the Dean. DMNS, Queens College, City University of New York. November 2011 to June 2012

Assistant Professor. Queens College, City University of New York. September 2006 to Dec 2011

Research Awards (International)

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)*. Matt Huenerfauth is a four-time winner of the Best Paper Award at *ASSETS*, which is more than any other individual in the history of the conference.

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.

Funding from University-External Sources (PI/co-PI share of funding awards totaling \$4,423,410)

Cecilia Alm (PI), Reynold Bailey (co-PI), Matt Huenerfauth (Senior Personnel), Ray Ptucha (Senior Personnel). April 2019 to March 2022. "REU Site: Computational Sensing for Human-centered AI." National Science Foundation, CISE Directorate, Division of Computer and Network Systems. Award total: \$359,927.

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), Lisa Elliot (co-PI). August 2018 to July 2021. "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 2021. "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

Matthew Seita (student fellowship recipient), Matt Huenerfauth (faculty advisor). September 2018 to August 2023. National Science Foundation Graduate Research Fellowship (NSF-GRF) to Matthew Seita. Amount of funding: Tuition and stipend for three years, approximate value: **\$138,000**.

Matthew Dye (PI), Matt Huenerfauth (co-PI), Corrine Occhino (co-PI), Andreas Savakis (co-PI). July 2018 to June 2021. "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). 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**.

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, Vicki L. Hanson, co-PI, Stephanie Ludi, PI for subcontract to University of North Texas. January 2016 to December 2019. "CCE STEM: Ethical Inclusion of People with Disabilities through Undergraduate Computing Education." National Science Foundation. Amount of funding: **\$449,987**.

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. September 2014 to August 2019. "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.

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. 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 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. 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)

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, 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, Queens College, The City University of New York. 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, Queens College, The City University of New York. 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, Queens College, The City University of New York. Amount: \$12,800.

Matt Huenerfauth, PI. December 2008 to December 2009. “Text readability software for adults with intellectual disabilities.” Research Enhancement Committee, Queens College, The City University of New York. 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, Queens College, The City University of New York. Amount: \$30,000.

Matt Huenerfauth, PI. July 2008 to December 2009. “Educational Software for Deaf Users.” Professional Staff Congress - City University of New York (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 - City University of New York (PSC-CUNY) Research Award Program, Out-Of-Cycle Round 38. Amount: \$4,095.

Peer-Refereed Journal Articles

[J.18] Larwan Berke, Kasmira Patel, Matt Huenerfauth. 2019 (to appear). Design and Psychometric Evaluation of American Sign Language Translations of Usability Questionnaires. *ACM Transactions on Accessible Computing (TACCESS)*. 44 pages. ACM, New York, NY, USA.

[J.17] Abhishek Mhatre, Sedeeq Al-khazraji, Matt Huenerfauth. 2019 (to appear). “Evaluating Sign Language Animation through Models of Eye Movements.” *Journal on Technology and Persons with Disabilities*, California State University, Northridge.

[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*, California State University, Northridge.

[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: 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: 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: 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: 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: 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: 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: 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: 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: 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: 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: 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: 10.1080/01449290600636769

Book Chapters

- [C.10] Abhishek Kannekanti, Sedeeq Al-khazraji, Matt Huenerfauth. 2019 (to appear). “Design and Evaluation of a User-Interface for Authoring Sentences of American Sign Language Animation.” *Universal Access in Human-Computer Interaction. Lecture Notes in Computer Science*. Switzerland: Springer International Publishing. [peer-reviewed conference paper, published as book chapter]

- [C.9] Utsav Shah, Matthew Seita, Matt Huenerfauth. 2019 (to appear). “Evaluation of User-Interface Designs for Educational Feedback Software for ASL Students.” *Universal Access in Human-Computer Interaction. Lecture Notes in Computer Science*. Switzerland: Springer International Publishing. [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.” *Universal Access in Human-Computer Interaction. Lecture Notes in Computer Science*. Switzerland: Springer International Publishing. [peer-reviewed conference paper, published as book chapter]
- [C.7] Hernisa Kacorri, Matt Huenerfauth. 2015. “Comparison of Finite-Repertoire and Data-Driven Facial Expressions for Sign Language Avatars.” *Universal Access in Human-Computer Interaction, Access to Interaction. Lecture Notes in Computer Science*, Volume 9176, pp. 393-403. Switzerland: Springer International Publishing. [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.” *Universal Access in Human-Computer Interaction. Lecture Notes in Computer Science*, Volume 8516, pp. 549-559. Switzerland: Springer International Publishing. [peer-reviewed conference paper, published as book chapter]
- [C.5] Hernisa Kacorri, Pengfei Lu, Matt Huenerfauth. 2013. “Evaluating Facial Expressions in American Sign Language Animations for Accessible Online Information.” *Universal Access in Human-Computer Interaction. Design Methods, Tools, and Interaction Techniques for eInclusion, Lecture Notes in Computer Science* Volume 8009, 2013, pp. 510-519. [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 *Universal Access in Human-Computer Interaction. Applications and Services. Lecture Notes in Computer Science*, Volume 6768, 2011, pp. 81-90. [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.” International Conference on Universal Access in Human-Computer Interaction (UAHCI). San Diego, CA. July 2009. In C. Stephanidis (Ed.), *Universal Access in HCI, Part III, HCII 2009, LNCS 5616*, pp. 530–539, 2009. Berlin/Heidelberg: Springer-Verlag. [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 Associates.

Peer-Refereed Papers, published in Conference Proceedings

- [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. [26% paper-acceptance rate]
Conference Award: Best Paper Award, ASSETS 2018.
- [P.49] Matthew Seita, Khaled Albusays, Sushant Kafle, Michael Stinson and Matt Huenerfauth. 2018 (to appear). “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. [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.
- [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. [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.
- [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.
- [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. [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. [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. [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. [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. [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.
- [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'17)*. Reno, Nevada, USA. New York: ACM Press.

- [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.
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- [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)

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

Vice-Chair, Special Interest Group on Accessible Computing (SIGACCESS), Association for Computing Machinery (ACM), July 2015 to Present. (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.)

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.)

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.)

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

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

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

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

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)

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 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)

Program Coordinator, HCI Masters Program, Department of Information Sciences and Technology, Golisano College of Computing and Information Sciences, Rochester Institute of Technology, Fall 2015-Present.

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.

Committee Member, Curriculum Committee, Department of Information Sciences and Technology, Golisano College of Computing and Information Sciences, Rochester Institute of Technology, Fall 2015-Present.

Committee Member, Assessment Committee, Department of Information Sciences and Technology, Golisano College of Computing and Information Sciences, Rochester Institute of Technology, Fall 2015-Present.

Committee Member (IST 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.)

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.

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

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-Present.

Designer/Creator of New 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.

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

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

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.

Division-wide budget planning, overseeing allocation of research enhancement funding and other faculty research support funds from the dean's office, community educational and high-school outreach activities, organizing major division-wide events (e.g., Undergraduate Science Research Day conference for several hundred students), assembling divisional information for public relations materials (e.g., new divisional viewbook), budgeting for equipment service contracts for core research facilities, coordinating course development for new general education curriculum at CUNY, and other projects as needed.

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 Minority Access to Research Careers program, 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 Program and Doctoral Certificate Program 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)

“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. 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. 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.

Dissertation Research Advisement, Computer Science Ph.D. Program, CUNY Graduate Center. Advising dissertation research projects for Computer Science Ph.D. students. Spring 2008-Present.

Introduction to Scientific Honors Research, Honors in the Natural and Mathematical Sciences, HMNS-102, CUNY Queens College. Directed undergraduate honors student research projects for course credit: Fall 2010.

Independent Study, Computer Science Department, CUNY Queens College. Directed student research projects for course credit: Fall 2008, Spring 2010.

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.

Ph.D. Student Advisees

Abraham Glasser, Ph.D. advisor, Computing & Information Sciences, RIT. Fall 2019 to Present.

- Undergraduate research assistant at the laboratory since 2017, matriculating into PhD program in 2019
- Recipient of Honorable Mention in NSF Graduate Research Fellowship competition, 2018.

Oliver Alonzo, Ph.D. advisor, Computing & Information Sciences, RIT. Fall 2018 to Present.

Matthew Seita, Ph.D. advisor, Computing & Information Sciences, RIT. Fall 2017 to Present.

- Recipient of NSF Graduate Research Fellowship, 2018.

Sedeeq Alkhazraji, Ph.D. advisor, Computing & Information Sciences, RIT. Fall 2016 to Present.

Khaled Albusays, Ph.D. advisor, Computing & Info. Sciences, RIT. Fall 2016 to Present. Proposal: May 2018.

Larwan Berke, Ph.D. advisor, Computing & Information Sciences, RIT. Fall 2015 to Present. Proposal: May 2018.

- Recipient of NSF Graduate Research Fellowship, 2017.

Sushant Kafle, Ph.D. advisor, Computing & Information Sciences, RIT. Fall 2015 to Present. Proposal: June 2018.

Paula Garcia, Ph.D. co-advisor, Computing & Info. Sciences, RIT. Summer 2018 to Present. Proposal: June 2018.

Hernisa Kacorri, Ph.D. advisor, The Graduate Center, CUNY. Defended and graduated: February 2016.

- After graduation: Post-Doctoral Research Fellow at Carnegie Mellon University.
- Since Fall 2017: Tenure-Track Assistant Professor, University of Maryland, in College Park, Maryland.

Allen Harper, Ph.D. advisor, The Graduate Center, CUNY. Defended and graduated: June 2015.

- After graduation: Visiting Assistant Professor at Bowdoin College in Brunswick, Maine.

Josh Waxman, Ph.D. advisor, The Graduate Center, CUNY. Defended and graduated: June 2014.

- Since Fall 2016: Tenure-track Assistant Professor at Yeshiva University in New York, New York.

Pengfei Lu, Ph.D. advisor, The Graduate Center, CUNY. Defended and graduated: October 2013.

- 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. advisor, The Graduate Center, CUNY. Defended and graduated: September 2010.

- 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)

Jade Myers, Ph.D. thesis committee, RIT. Research Potential Assessment (qualifier) Expected: May 2019.

Jagannadh Pariti, Ph.D. thesis committee, RIT. Research Potential Assessment (qualifier) Expected: May 2019.

Kushal Kafle, Ph.D. chair of thesis committee, Imaging Science, RIT. Research proposal defended: October 2018.

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. Expecting proposal: May 2017.

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 Troutd, 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)

Rachel Celestine, Human Computer Interaction M.S. student, RIT. 2018 to Present. Proposal expected January '19.
Aakash Mahdi, Human Computer Interaction M.S. student, RIT. 2018 to Present. Proposal expected January '19.
Dishant Shah, Human Computer Interaction M.S. student, RIT. 2018 to Present. Proposal expected January '19.
Ruiwen Fan, Human Computer Interaction M.S. student, RIT. 2018 to Present. Proposal expected January '19.
Peter Yeung, Human Computer Interaction M.S. student, RIT. 2017 to Present. Proposal expected January '19.

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

Harshad Golwalkar, Human Computer Interaction M.S. student, RIT. 2015 to Present. Proposal accepted.
Tomomi Takeuchi, Human Computer Interaction M.S. student, RIT. 2016 to Present. Proposal accepted.
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.
Abhishek Mhatre, Human Computer Interaction M.S. student, RIT. 2015 to 2017. Defended: December 2017.
Utsav Shah, Human Computer Interaction M.S. student, RIT. 2015 to 2017. Defended: December 2017.
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 proposal) (publication co-authorship noted below)

Alex Kramer, Information Sciences and Technologies M.S. student, RIT. 2018 to Present.
Shuishu Fang, Information Sciences and Technologies M.S. student, RIT. 2018 to Present.
Taylor Gotfrid, Human Computer Interaction M.S. student, RIT. 2017 to Present.
Sheshagiri Anupama Garani, Information Sciences and Technologies M.S. student, RIT. 2017 to 2018.
Nidhi Palan, Human Computer Interaction M.S. student, RIT. 2014 to 2017.

- Co-author, e.g. of paper at *ACM Technical Symposium on Computer Science Education (SIGCSE'18)*.

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

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

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)

Gillian Trommer, ASL English Interpretation, B.A. student, NTID/RIT. 2018 to Present.
Miko Arayata, Design and Imaging Technology, undergraduate student, NTID/RIT. 2018 to Present.
Neckeya Brown, Occupational Studies, undergraduate student, NTID/RIT. 2018 to Present.
Marlena Rauber, Administration Support Technology, undergraduate student, NTID/RIT. 2018 to Present.
Nicholas Rudar, Marketing, B.S. degree student, NTID/RIT. 2018 to Present.
GuanZi Min, Applied Computer Technology, undergraduate student, NTID/RIT. 2018 to Present.
Jeremy Sheffield, ASL English Interpretation, B.A. student, NTID/RIT. 2017 to Present.
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

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 @RITGolisoanCCIS 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 Athenaeum: 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 Athenaeum: 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)

Association for Computational Linguistics (ACL)

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