

Matt Huenerfauth
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Faculty Appointments

Rochester Institute of Technology (RIT)	Rochester, NY
Professor , School of Information, Golisano College of Computing and Information Sciences	2017 to Present
Associate Professor , School of Information, Golisano College of Computing and Info. Sciences	2014 to 2017
City University of New York (CUNY)	New York, NY
Associate Professor , Department of Computer Science, CUNY Queens College	2012 to 2014
Assistant Professor , Department of Computer Science, CUNY Queens College	2006 to 2011

Administrative Experience

Rochester Institute of Technology (RIT)	Rochester, NY
Director , School of Information, Golisano College of Computing and Information Sciences	2020 to Present

The School of Information has 28 full-time faculty, 6 full-time staff, and over 700 students across three B.S. programs, four M.S. programs, and an advanced certificate; iSchool programs span the fields of computing and information technologies, human-computer interaction, data science, information technology and analytics, web and mobile computing, and health informatics. The iSchool partners with RIT Online for four online graduate degrees and supports RIT global campuses in Croatia, Kosovo, and UAE, which offer iSchool B.S. programs.

Administrative:

- Managed disruptions due to the COVID pandemic, e.g., in regard to remote or hybrid course delivery, human-subjects research limitations, maintaining student-services continuity, changing university policies and safety protocols, and COVID-related disability accommodations and flexible work plans.
 - Met with faculty, students, and staff to understand concerns; consulted with appropriate stakeholders prior to identifying options for resolution; established new iSchool policies to address emerging issues.
 - Upward evaluation survey of iSchool faculty revealed strong support for my leadership, with faculty indicating that I had fostered open communication and a supportive and inclusive environment.
- Created a new Assistant Director role within iSchool to address growing partnerships with RIT Online, RIT Global, and industry, as well as increasing scheduling and staffing complexity from multiple degrees.
 - Obtained approval for position despite COVID-related hiring restrictions, led successful search, and oversaw onboarding process and workflow changes within iSchool to integrate this new position.
 - Positive feedback received from college scheduling office, RIT Global, industry partners, and faculty from improvements to coordination and communications from the addition of this new role.

Curricular:

- Successfully proposed to Academic Affairs that iSchool administer RIT's forthcoming M.S. in Artificial Intelligence; have led the ongoing administrative and budget planning for this interdisciplinary program, including negotiations with deans across four colleges, Graduate School, and Office of Financial Planning.
- Launched a faculty task force to consider shifting iSchool's introductory programming courses to a new college-wide set of courses to enable flexibility for students who wish to change programs, obtained faculty and curriculum committee approval, and collaborated with other departments on course scheduling.
- To address student requests for greater flexibility, especially during COVID, proposed a new iSchool co-op policy with more options for students in fulfilling their co-op requirement, now with a research, creative, or entrepreneurial option; led open discussions of this policy change among iSchool faculty at department meetings and obtained unanimous support in a faculty vote for this policy; oversaw launch in Fall 2021.
- To address enrollment concerns with M.S. in Information Sciences and Technologies, launched discussions among iSchool faculty to adjust curriculum, updated program description on webpages, and negotiated with other departments to obtain support for the degree to be renamed to "Information Technology and Analytics," which RIT Online data had revealed would have greater appeal to prospective applicants.

Research Enhancement:

- To increase scholarly publication and external funding, met with iSchool faculty who had questions about identifying external funding support sources, selecting high-quality venues for publication, writing successful grant proposals, and working with collaborators on grants. Since becoming Director in 2020:
 - Three iSchool faculty members have become PIs for the first-time on external research awards.
 - iSchool faculty have submitted 17 proposals to external funding agencies, foundations, or industry.
 - RIT has received \$1.3 million in sponsored research awards with iSchool PIs, \$2.8 million in sponsored research awards with iSchool co-PIs, and \$90k in corporate or foundation gifts with iSchool PIs.
- In support of a GCCIS college proposal to the Division of Academic Affairs for long-term research-space increases, contributed proposal text and scholarship data to the dean’s office and engaged in strategic discussions with dean’s leadership team about how to best frame GCCIS’s proposal to this competition.
- Consulted with GCCIS dean's office about research-space planning and renovations for pre-tenure faculty, as part of a new human-computer interaction research suite on the 2nd floor of the Golisano building.

Diversity and Inclusion:

- Served as co-PI on a successful National Science Foundation proposal for an NSF Research Traineeship (NRT) program in artificial intelligence at RIT, with a specific focus on increasing the number of deaf or hard-of-hearing, women, and AALANA students pursuing graduate study in this field. This five-year \$2-million program will provide educational enrichment opportunities and potential fellowship funding for students in specific graduate programs across RIT, including three iSchool M.S. degree programs.
- Collaborated with GCCIS dean and director of the Women in Computing (WiC) program on a proposal to Northeastern University to promote more women obtaining degrees in computing. While the proposal was unsuccessful, as a result of this effort I wrote a college-wide Broadening Participation in Computing (BPC) plan and obtained verification of the plan by NSF's BPCnet program. GCCIS PIs of future NSF proposals can now link to this college-wide plan when writing the required BPC section of their NSF proposals.

Budgetary:

- Successfully obtained \$112,000 in university capital-funding support for improvements to iSchool usability testing lab and systems administration lab, to address out-of-date technology in those instructional spaces.
- To reduce the need to run graduate courses with low enrollments, identified opportunities to re-use existing graduate courses across several iSchool M.S. programs as electives; brought these options to the faculty for consideration and obtained curriculum-committee approval for degree changes to implement this change.
- To control costs of teaching-assistant staffing, led discussions among faculty program directors and coordinators to update the iSchool’s policy for TA assignment, based on course structure and enrollments.

Advancement:

- Organized iSchool panels of alumni and guest speakers from industry during GCCIS 20th anniversary year and Brick City weekend, to foster deeper engagement with alumni and industry partners.
- In partnership with GCCIS Advancement team, met with a local company on several occasions, leading to engagement on the iSchool advisory board and a financial donation in support of iSchool student activities.
- Launched a task force of iSchool faculty and staff to design a new exit survey for graduating iSchool students, to both obtain feedback about their student experience and to facilitate future alumni outreach.

City University of New York (CUNY)

New York, NY

Associate Dean, Division of Math and Natural Sciences, CUNY Queens College

2012 to 2014

Assistant to the Dean, Division of Math and Natural Sciences, CUNY Queens College

2011 to 2012

The City University of New York (CUNY) consists of several institutions: 11 senior colleges, 7 community colleges, and various CUNY-wide programs. Queens College is a senior college, with approximately 20,000 students, and its academic departments are grouped into four “Divisions,” administrative units that would typically be referred to as “colleges” at other universities. The Division of Math and Natural Sciences (DMNS) at Queens College consists of eight academic departments: Biology, Chemistry and Biochemistry, Computer Science, Earth and Environmental Sciences, Family Nutrition and Exercise Sciences, Mathematics, Physics, and Psychology. As of 2013, when I served as Associate Dean, the Division had approximately 3,900 students in its undergraduate programs and 300 in its graduate programs, and the Division generated approximately 125,000 credit hours annually. As of 2013, the Division had 152 full-time faculty and 262 part-time adjunct faculty, and it generated approximately \$11 million in external sponsored research funding annually.

As the first Associate Dean of the Division, I worked with the Dean to define the new role, conducted projects and initiatives at the request of the Dean, and shared my perspective with the Dean about emerging issues.

Budgetary and Administrative:

- Assembled annual budget requests during College's transition from incremental to zero-based budgeting
 - Guided department chairs in preparing annual budget-expense estimates for instructional staffing costs, materials and supplies, capital requests, or other expenses
 - Identified cost savings for service contracts for scientific equipment in shared-use core facilities
 - Worked with the university accounting office to restructure the division's animal research center as an independent budget department to better model costs for this cross-departmental facility
- Prepared job description for new position of "Finance and Budget Specialist" in the dean's office to address increasing budget complexity at the Division level and led the search committee for a successful hire

Research Enhancement:

- Designed and oversaw process for research "seed" funding and faculty travel funds from the dean's office
- Organized major division-wide faculty and student events, e.g., increased size and formality of an Undergraduate Science Research Day event with research talks and posters from several hundred students
- Surveyed research space across the Division, e.g., for biennial NSF space survey for the College, and made recommendations to the dean about proportionality of space allocations to investigators' external funding

Curricular:

- Worked with Dean and department chairs to understand enrollment impact on existing Divisional courses from a new CUNY university system-wide common general-education curriculum called "Pathways"
- Coordinated with departments during the development of new introductory-level courses for this program

Diversity and Inclusion:

- Served as the Dean's representative for committees, e.g., Louis Stokes Alliance for Minority Participation
- Coordinated community-education and high-school activities, e.g., a "math magician" outreach event

Advancement:

- Assisted Dean with the preparation for and follow-ups from meeting of newly established Advisory Board
- Gathered and authored information for public-relations materials, e.g., new viewbook for the Division

Research-Enhancement Leadership Experience through professional and university service

Leadership Positions in Professional Research Organizations:

SIGACCESS Special Interest Group on Accessible Computing, Association for Computing Machinery, ACM. **Chair** (2021-Present) and **Vice-Chair** (2015-2021). Elected by researchers internationally in the field of computing accessibility for three-year terms. SIGACCESS sponsors the top conference in accessibility, ASSETS, as well as scholarships and initiatives in support of the international community researching computing and information technologies to empower individuals with disabilities and older adults.

ACM Transactions on Accessible Computing (TACCESS), Association for Computing Machinery (ACM). Leading research journal in the field of accessible computing, indexed by Elsevier Scopus and Clarivate (formerly Thompson Reuters) Emerging Sources Citation Index (ESCI). **Editor-in-Chief** (2013-2019, six-year maximum term), **Associate Editor** (2011-2013, 2019-Present), and **Editorial Board** (2008-Present).

International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS), ACM. **Steering Committee** (2012-Present), advisory committee of prior general chairs. **Deputy Program Chair** (2019) and **Program Chair** (2016) oversee peer-review and technical program selection. **General Chair** (2012) oversees organizing the entire conference. **Doctoral Consortium Chair** (2010) and **Student Research Competition Chair** (2008) run student events. **Publicity Chair** (2007) promotes the conference.

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

ACM CHI Conference on Human Factors in Computing Systems, ACM.

Associate Chair, subcommittee on Accessibility and Aging (2020) and **Associate Chair**, subcommittee on Usability, Accessibility and User Experience (2013). ACs assign reviewers, write meta-reviews, and participate in the multi-day program-committee meetings to select papers for the conference proceedings.

Research-Enhancement Activities in a University Setting:

- Founder and co-Director**, Center for Accessibility and Inclusion Research (CAIR), Golisano College of Computing and Information Sciences, RIT. Research center bringing together faculty and students who conduct and publish research at leading computing and education venues, on accessibility and assistive technology for diverse users, including people who are Deaf or Hard of Hearing, people who are blind, and older adults. Grew to team of over 35 researchers, who have secured over \$5 million in external research funding, over 100 peer-reviewed journal and conference papers, and 12 Best Paper and Honorable Mention Awards from major research venues, including the ACM CHI and ASSETS conferences. 2014-Present.
- Core Faculty Member**, Research Center for Human Aware Artificial Intelligence (CHAI), RIT, 2018-Present.
- Committee Member (Departmental Representative)**, Outstanding Scholar Committee, Golisano College of Computing and Information Sciences, RIT, 2016-2020. (Recused in 2017 since was candidate for the award.)
- Committee Member**, Research Seed Funding Review Committee, Deans Office, Golisano College of Computing and Information Sciences, RIT, November 2014, December 2018, and January 2017.
- 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, Feb. 2016.
- 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.
- Co-Organizer**, CUNY-NLP Seminar Series (guest speaker series on natural language processing and computational linguistics), Graduate Center, The City University of New York, 2009-2014.
- 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**, Research Enhancement Committee, Division of Math and Natural Sciences, Queens College, 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**, Committee to Enhance Scholarship and External Funding, Queens College, CUNY, 2009.

International Gatherings to Promote Research Fields:

- Participant**, Microsoft and the AI Now Institute, “Microsoft Workshop on Disability, AI, and Bias,” invitational gathering of researchers and experts on disabilities and technology, New York, NY, USA, March 28, 2019.
- Participant**, Google, “Machine Learning for Accessibility Workshop,” workshop on artificial intelligence and accessibility to benefit people with disabilities, Google, San Francisco, CA, USA, October 15-16, 2019.
- Participant**, Summer Institute on “Expanding Accessibility Research,” gathering of accessibility research leaders, U. of Washington Computer Science & Engineering and Microsoft Research, July 5-8, 2016.

Program Committees for Research Conferences:

- International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)**, 2007-2022.
- International Web for All Conference (Web4All-W4A)**, 2011-2016, 2022.
- International Technology and Persons with Disabilities Conference (CSUN)**, 2017-2022.
- International ACM CHI Conference on Human Factors in Computing Systems (CHI)**, 2013 and 2020.
- International Workshop on Sign Language Translation and Avatar Technology (SLTAT)**, 2019.
- Workshop on the Representation and Processing of Sign Languages at LREC**. 2018, 2020, 2022.
- Workshop on Speech and Language Processing for Assistive Technologies (SLPAT)**. 2010-2016 and 2019
- Workshop on Predicting & Improving Text Readability for Target Reader Populations (PITR)**, 2012-2013.
- IASTED International Conference on Telehealth and Assistive Technology**, 2008-2009.
- International Conference on Computers Helping People with Special Needs**, 2018.
- North American Chapter of the Association for Computational Linguistics Conference (NAACL)**, 2018.

Reviewing for Research Funding Agencies:

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

Ad Hoc Proposal Reviewer, National Science Foundation, Directorate for Computer and Information Science and Engineering, Intelligent and Information Systems Division, 2008-2010 and 2012.

Ad Hoc Proposal Reviewer, National Science Foundation, Directorate for Education & Human Resources, 2010.

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

Reviewing for Conferences and Journals (beyond program committees listed above):

ACM CHI Conference on Human Factors in Computing Systems (CHI), 2011-2012 and 2015-2020.

- Special recognition award for outstanding review, CHI 2019 Papers.
- Special recognition award for exceptional review, CHI 2015 Paper and Notes.

ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp), 2016.

ACM Symposium on Applied Perception (SAP), 2016.

ACM User Interface Software and Technology Symposium (UIST), 2009 and 2016.

Computer Speech and Language (CSL) journal, 2013 and 2012.

Machine Translation (MT) journal, 2019 and 2011

International Conference on Computational Linguistics (COLING), 2010.

Journal of Artificial Intelligence Research (JAIR), 2009.

Diversity and Inclusion Leadership Experience through professional and university service

Research Mentoring of Women and AALANA Students. Supervised the research of over 125 students, including over 55 women and over 20 African American, Latino American, and Native American students. Both women and AALANA students are under-represented in education and in careers in computing.

Research Mentoring of Deaf and Hard-of-Hearing (DHH) Students. Became conversational in American Sign Language (ASL) through coursework from 2002-2006. Supervised the research of over 50 DHH individuals since 2008, and research team operates bilingually in English and ASL.

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

Partner, AccessComputing, NSF-funded program based at the University of Washington for broadening participation in computing for people with disabilities, 2011 to 2020.

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 include a preference for accessibility knowledge. The group has met via teleconference and in-person at events at the CSUN 2016 conference and at an April 2016 Kick-start Workshop event at Yahoo! in Sunnyvale, CA. March 2016 to April 2019.

ACM Representative, discussed accessibility and people with disabilities at Integrating Ethics Across Computing Science Curricula Workshop at Harvard University Center for Research on Computation and Society, 2018.

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

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

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

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.

Curricular and Academic Leadership Experience through university service

Program and Course Leadership:

Program Coordinator, M.S. in Human Computer Interaction, RIT. Program coordinators lead curricular discussions among faculty contributing to a program and support the graduate director. 2015-2020.

Course Leads in the School of Information update curricular materials for a course and provide resources for other faculty who teach the course: HCI MS Capstone Proposal Development (2019-2020), Foundations of HCI (2015-2020), User Centered Design Methods (2016-2019), and Collaboration Technology (2016-2019).

Acting Director, Masters in Computational Linguistics and Doctoral Certificate in Computational Linguistics, Graduate Program in Linguistics, Graduate Center, CUNY. Course scheduling and staffing, curriculum planning, addressing student concerns, updating website, and admissions advertising campaign. 2010-2012.

Curricular and Executive Committees:

Curriculum and Assessment Committee Member, School of Information, RIT, 2015-2020.

Curriculum Committee Member, Linguistics and Language Science Committee, RIT. 2016-Present.

Curriculum Committee Member, Computer Science Department, Queens College, CUNY. 2009-2014.

Executive Committee Member, Linguistics Doctoral and M.S. Program, Graduate Center, CUNY. 2011-2013.

College Council and Curriculum Committee Member, Macaulay Honors College, CUNY. 2010-2012.

College and University Committees:

Committee Member, Ad Hoc Committee to Consider Alternative PhD Admissions Policies, GCCIS, RIT. 2019.

Committee Member, Ad Hoc Committee on Expectations for Promotion to Professor, GCCIS, RIT. 2018-2019.

Chair, Academic/Internships Subcommittee, Queens College 75th Anniversary Planning Committee. 2011-2012.

Committee Member, Ad Hoc Committee on Studying the New CUNY Pathways General Education Program, Faculty Senate, Queens College, CUNY. 2011.

Faculty Hiring Committees:

Chair of Faculty Search Committee, successful cluster hire of three assistant professors in human-computer interaction and accessibility, School of Information, RIT, 2018-2019.

Member of Faculty Search Committee, visiting assistant professor in natural language processing and speech technology, Department of English, RIT, 2017.

Chair of Faculty Search Committee, visiting faculty, Computer Science, Queens College, CUNY, 2011-2012.

Member of Faculty Search Committee, CUNY cyber-infrastructure faculty, Queens College, 2009-2010.

Administrative and Professional Staff Hiring Committees:

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

Chair of Search Committee, Assistant Director of School of Information, RIT, 2020.

Member of Search Committee, Coordinator for NSF Research Traineeship Program, RIT, 2021.

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.

Awards: Rubinoff Award for Innovative Dissertation (2007), Computer Science, University of Pennsylvania.

Best Doctoral Candidate Award (2004), ACM SIGACCESS conference (ASSETS'04).

Teaching Practicum Award (2003-2004), Computer Science, University of Pennsylvania.

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 focusing on human computer interaction: 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).

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.

Research Focus

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

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

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

Research Awards (International)

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

- Best Paper Award.** (2019). For “Sign Language Recognition, Generation, and Translation: An Interdisciplinary Perspective” at the 21st *International ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS’19). Five-time winner of the Best Paper Award at *ASSETS*, more than any individual in the history of the conference.
- Best Paper Award.** (2019). For “Design and Evaluation of a User-Interface for Authoring Sentences of American Sign Language Animation” at the 13th *International Conference on Universal Access in Human-Computer Interaction*.
- Best Paper Award.** (2018). For “Modeling the Speed and Timing of American Sign Language to Generate Realistic Animations” at the 20th *International ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS’18).
- Best Paper Honorable Mention.** (2018). For “Methods for Evaluation of Imperfect Captioning Tools by Deaf or Hard-of-Hearing Users at Different Reading Literacy Levels” at the *ACM SIGCHI Conference on Human Factors in Computing Systems* (CHI’18). This designation is given to the top 5% of peer-reviewed submissions to CHI’18.
- ACM Distinguished Member.** (2017). The Association for Computing Machinery (ACM) raises approximately 45 individuals internationally to this status each year who have over 15 years of professional experience, have achieved significant scientific or technical accomplishments, and have made a significant impact on the field of computing.
- Best Paper Award.** (2017). For “Evaluating the Usability of Automatically Generated Captions for People who are Deaf or Hard of Hearing” at the 19th *International ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS’17).
- Best Paper Nominee.** (2017). For “Design and Psychometric Evaluation of an American Sign Language Translation of the System Usability Scale” at the 19th *International ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS’17). This designation is given to the top 5% of peer-reviewed papers submissions to the conference.
- ACM Senior Member.** (2014). The Association for Computing Machinery (ACM) honors members with at least 10 years of professional experience and demonstrated performance through technical leadership or contributions.
- Faculty Early Career Development (CAREER) Award.** (2008). U.S. National Science Foundation’s most prestigious research award in support of junior faculty who integrate research and education within the mission of their organizations. The award comes with a federal grant for research and education activities for five consecutive years.
- Best Paper Award.** (2007). For the paper “Evaluating American Sign Language Generation Through the Participation of Native ASL Signers” at the 9th *ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS’07).
- Best Paper Award.** (2005). For the paper entitled “Representing Coordination and Non-Coordination in an American Sign Language Animation” at the 7th *ACM SIGACCESS Conference on Computers and Accessibility* (ASSETS’05).

Research Awards (University)

- Trustees Scholarship Award.** (2018). This university-wide award honors an RIT faculty member with a sustained record of scholarship excellence, especially work that has been integral to the student educational experience at RIT. The recipient is also honored as a member of the platform party at the RIT Commencement Ceremony in May.
- GCCIS Outstanding Scholar Award.** (2018). This college-wide award for excellence in research and scholarship is awarded to a faculty member in the B. Thomas Golisano College of Computing and Information Sciences (GCCIS).
- NTID Partner Award.** (2018). Office of the Associate Dean for Research, National Technical Institute for the Deaf. Inaugural winner of this award, honoring a collaborator from one of RIT’s other colleges who has helped NTID realize its research goals. Independently nominated for this award by three different NTID researchers.
- Top Contributor to RIT’s Faculty Scholarship Report.** (2018). Rochester Institute of Technology. Researcher from the Golisano College of Computing with the greatest number of contributions to the 2017 Faculty Scholarship Report (the #3 contributor for the university overall).
- RIT PI Millionaire.** (2017). Rochester Institute of Technology, designation given to RIT researchers who have achieved funding of \$1 million or more in external grants to RIT. (Joined the faculty of RIT in August 2014.)
- Featured Faculty in RIT’s Faculty Scholarship Report.** (2017). Selected by the dean of the Golisano College of Computing and Information Sciences as the faculty member to be featured in the 2016 RIT annual report of scholarship; this annual report lists the publications, research presentations, and research grants of all RIT faculty.

Certificate of Recognition for Outstanding Scholarly Achievement. (2016). Rochester Institute of Technology.

Award from the Office of the Provost of RIT as researcher from the Golisano College of Computing with the greatest number of contributions to the 2015 Faculty Scholarship Report (the #4 contributor for the university overall).

Certificate of Recognition. (2008 and 2007). CUNY Chancellor's "Salute to Scholars" Ceremony.

External Research Funding (PI/co-PI share of funding awards in bold below, totaling \$5,250,312)

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

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

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

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

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

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

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

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

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

Matt Huenerfauth (PI). July 2018 to June 2022. "CHS: Medium: Collaborative Research: Scalable Integration of Data-driven and Model-based Methods for Large Vocabulary Sign Recognition and Search." National Science Foundation, CISE Directorate, IIS Division, Cyber-Human Systems (CHS) Program. Award total: **\$209,096**.

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

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

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

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

Thomas Pederson (key personnel), Jose Font (key personnel), Cecilia Alm (key personnel), Pengcheng Shi (key personnel), and participants: Alberto Alvarez, Johan Salo, Reynold Bailey, Joe Geigel, Matt Huenerfauth, Kristen Shinohara, Jeff Pelz, Sebastian Hastrup. January 2020 to December 2020. "Boosting HCI - Growing end user digitalisation research at Malmö University by prototyping and piloting a framework for graduate student lab visits at RIT." Swedish Foundation for International Cooperation in Research and Higher Education, STINT Initiation Grant. Award total: 149,999 Euro.

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

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

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

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

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

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

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

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

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

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

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

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

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

University-Internal Research Funding

A total of \$271,988 in university-internal research funding has been obtained from RIT from the NTID Scholarship Portfolio Development Initiative, NTID president's office, AdvanceRIT Connect Grants Program, and GCCIS Seed Funding Program. A total of \$100,695 in university-internal research funding has been obtained from CUNY from the Graduate Investment Initiative, Research Enhancement Committee, and PSC-CUNY Research Award Program.

Peer-Refereed Journal Articles

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

Details of 13 older journal articles on full academic CV: <http://huenerfauth.ist.rit.edu/huenerfauth-cv.pdf>

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

- [C.14] Akhter Al Amin, Joseph Mendis, Raja Kushalnagar, Christian Vogler, Sooyeon Lee, Matt Huenerfauth. 2022 (to appear). “Deaf and Hard of Hearing Viewers' Preference for Speaker Identifier Type in Live TV Programming.” In: Antona M., Stephanidis C. (eds) *Universal Access in Human-Computer Interaction. Lecture Notes in Computer Science*. [peer-reviewed conference paper, published as book chapter]
- [C.13] Akhter Al Amin, Abraham Glasser, Raja Kushalnagar, Christian Vogler, Matt Huenerfauth. 2021. “Preferences of Deaf or Hard of Hearing Users for Live-TV Caption Appearance.” In: Antona M., Stephanidis C. (eds) *Universal Access in Human-Computer Interaction. Access to Media, Learning and Assistive Environments. HCII 2021. Lecture Notes in Computer Science*, vol 12769. Springer, Cham. https://doi.org/10.1007/978-3-030-78095-1_15 [peer-reviewed conference paper, published as chapter]
- [C.12] Akhter Al Amin, Saad Hassan, Matt Huenerfauth. 2021. “Effect of Occlusion on Deaf and Hard of Hearing Users' Perception of Captioned Video Quality.” In: Antona M., Stephanidis C. (eds) *Universal Access in Human-Computer Interaction. Access to Media, Learning and Assistive Environments. HCII 2021. Lecture Notes in Computer Science*, vol 12769. Springer, Cham. https://doi.org/10.1007/978-3-030-78095-1_16 [peer-reviewed conference paper, published as book chapter]
- [C.11] Peter Yeung, Oliver Alonzo, Matt Huenerfauth. 2020. “Interest and Requirements for Sound-Awareness Technologies among Deaf and Hard-of-Hearing Users of Assistive Listening Devices.” In: Antona M., Stephanidis C. (eds) *Universal Access in Human-Computer Interaction. Applications and Practice. HCII 2020. Lecture Notes in Computer Science*, vol 12189. Springer, Cham. https://doi.org/10.1007/978-3-030-49108-6_11 [peer-reviewed conference paper, published as book chapter]

Details of 10 older book chapters on full academic CV: <http://huenerfauth.ist.rit.edu/huenerfauth-cv.pdf>

Peer-Refereed Papers, published in Conference Proceedings

- [P.78] Oliver Alonzo, Jessica Trussell, Matthew Watkins, Sooyeon Lee, Matt Huenerfauth. 2022. “Methods for Evaluating the Fluency of Automatically Simplified Texts with Deaf and Hard-of-Hearing Adults at Various Literacy Levels.” In *Proceedings of the CHI Conference on Human Factors in Computing Systems Proceedings (CHI '22)*. Association for Computing Machinery, New York, NY, USA. DOI: <https://doi.org/10.1145/3491102.3517566> [26% paper acceptance rate]
- [P.77] Akhter Al Amin, Saad Hassan, Sooyeon Lee, Matt Huenerfauth. 2022. “Watch It, Don't Imagine It: Creating a Better Caption-Occlusion Metric by Collecting More Ecologically Valid Judgments from DHH Viewers.” In *Proceedings of the CHI Conference on Human Factors in Computing Systems Proceedings (CHI '22)*. Association for Computing Machinery, New York, NY, USA. DOI: <https://doi.org/10.1145/3491102.3517681> [26% paper acceptance rate]
- [P.76] Saad Hassan, Akhter Al Amin, Alexis Gordon, Sooyeon Lee, Matt Huenerfauth. 2022. Design and Evaluation of Hybrid Search for American Sign Language to English Dictionaries: Making the Most of Imperfect Sign Recognition. In *Proceedings of the CHI Conference on Human Factors in Computing Systems Proceedings (CHI '22)*. Association for Computing Machinery, New York, NY, USA, DOI: <https://doi.org/10.1145/3491102.3501986> [26% paper acceptance rate]
- [P.75] Abraham Glasser, Matthew Watkins, Kira Hart, Sooyeon Lee, Matt Huenerfauth. 2022. Analyzing Deaf and Hard-of-Hearing Users' Behavior, Usage, and Interaction with a Personal Assistant Device that Understands Sign-Language Input. In *Proceedings of the CHI Conference on Human Factors in Computing Systems Proceedings (CHI '22)*. Association for Computing Machinery, New York, NY, USA, DOI: <https://doi.org/10.1145/3491102.3501987> [26% paper acceptance rate]
- [P.74] Matthew Seita, Sooyeon Lee, Sarah Andrew, Kristen Shinohara, Matt Huenerfauth. 2022. Remotely Co-Designing Features for Communication Applications using Automatic Captioning with Deaf and Hearing Pairs. In *Proceedings of the CHI Conference on Human Factors in Computing Systems Proceedings (CHI '22)*. Association for Computing Machinery, New York, NY, USA, DOI: <https://doi.org/10.1145/3491102.3501843> [26% paper acceptance rate]

- [P.73] Saad Hassan, Matt Huenerfauth, Cecilia Ovesdotter Alm. 2021. “Unpacking the Interdependent Systems of Discrimination: Ableist Bias in NLP Systems through an Intersectional Lens.” In *Findings of the Association for Computational Linguistics: EMNLP 2021*, Punta Cana, Dominican Republic, November 2021. Pages 3116-3123. Association for Computational Linguistics. <https://aclanthology.org/2021.findings-emnlp.267> [34.9% aggregate acceptance rate for EMNLP and Findings of EMNLP]
- [P.72] Sooyeon Lee, Abraham Glasser, Becca Dingman, Zhaoyang Xia, Dimitris Metaxas, Carol Neidle, Matt Huenerfauth. 2021. “American Sign Language Video Anonymization to Support Online Participation of Deaf and Hard of Hearing Users.” In *The 23rd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'21)*. Association for Computing Machinery, New York, NY, USA, Article 22, 1–13. DOI: <https://doi.org/10.1145/3441852.3471200>. [29% paper acceptance rate]
Conference Award: Best Paper Nominee (top 7% of submissions), ASSETS 2021.
- [P.71] Sedeeq Al-khazraji, Becca Dingman, Sooyeon Lee, Matt Huenerfauth. 2021. “At a Different Pace: Evaluating Whether Users Prefer Timing Parameters in American Sign Language Animations to Differ from Human Signers’ Timing.” In *The 23rd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'21)*. Association for Computing Machinery, New York, NY, USA, Article 40, 1–12. DOI: <https://doi.org/10.1145/3441852.3471214> [29% paper acceptance rate]
- [P.70] Oliver Alonzo, Jessica Trussell, Becca Dingman, Matt Huenerfauth. 2021. “Comparison of Methods for Evaluating Complexity of Simplified Texts among Deaf and Hard-of-Hearing Adults at Different Literacy Levels.” In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems (CHI '21)*. Association for Computing Machinery, New York, NY, USA, Article 279, 1–12. DOI: <https://doi.org/10.1145/3411764.3445038> [23% paper acceptance rate]
- [P.69] Vaishnavi Mande, Abraham Glasser, Becca Dingman, Matt Huenerfauth. 2021. “Deaf Users' Preferences Among Wake-Up Approaches during Sign-Language Interaction with Personal Assistant Devices.” In *Extended Abstracts of the 2021 CHI Conference on Human Factors in Computing Systems. Association for Computing Machinery (CHI '21)*, New York, NY, USA, Article 370, 1–6. DOI: <https://doi.org/10.1145/3411763.3451592> [27% paper acceptance rate]
- [P.68] Abraham Glasser, Vaishnavi Mande, Matt Huenerfauth. 2021. “Understanding Deaf and Hard-of-Hearing Users’ Interest in Sign-Language Interaction with Personal-Assistant Devices.” In *Proceedings of the 18th International Web for All Conference (W4A '21)*. ACM, New York, NY, USA. DOI: <https://doi.org/10.1145/3430263.3452428> [53% paper acceptance rate]
- [P.67] Akhter Al Amin, Saad Hassan, Matt Huenerfauth. 2021. “Caption-Occlusion Severity Judgments across Live-Television Genres from Deaf and Hard-of-Hearing Viewers.” In *Proceedings of the 18th International Web for All Conference (W4A '21)*. ACM, New York, NY, USA. DOI: <https://doi.org/10.1145/3430263.3452429> [53% paper acceptance rate]
- [P.66] Matthew Seita, Sarah Andrew, Matt Huenerfauth. 2021. “Deaf and Hard-of-Hearing Users’ Preferences for Hearing Speakers’ Behavior during Technology-Mediated In-Person and Remote Conversations.” In *Proceedings of the 18th International Web for All Conference (W4A '21)*. ACM, New York, NY, USA. DOI: <https://doi.org/10.1145/3430263.3452430> [53% paper acceptance rate]
- [P.65] Oliver Alonzo, Lisa Elliot, Becca Dingman, and Matt Huenerfauth. 2020. “Reading Experiences and Interest in Reading-Assistance Tools Among Deaf and Hard-of-Hearing Computing Professionals.” In *The 22nd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '20)*. Association for Computing Machinery, New York, NY, USA, Article 45, 1–13. DOI: <https://doi.org/10.1145/3373625.3416992> [28% paper-acceptance rate]
- [P.64] Qiwen Zhao, Vaishnavi Mande, Paula Conn, Sedeeq Al-khazraji, Kristen Shinohara, Stephanie Ludi, and Matt Huenerfauth. 2020. “Comparison of Methods for Teaching Accessibility in University Computing Courses.” In *The 22nd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '20)*. Association for Computing Machinery, New York, NY, USA, Article 6, 1–12. DOI: <https://doi.org/10.1145/3373625.3417013> [28% paper-acceptance rate]
- [P.63] Abraham Glasser, Vaishnavi Mande, and Matt Huenerfauth. 2020. “Accessibility for Deaf and Hard of Hearing Users: Sign Language Conversational User Interfaces.” In *Proceedings of the 2nd Conference on Conversational User Interfaces (CUI '20)*. Association for Computing Machinery, New York, NY, USA, Article 55, 1–3. DOI: <https://doi.org/10.1145/3405755.3406158> [33.3% paper-acceptance rate]

- [P.62] Elahe Vahdani, Longlong Jing, Ying-li Tian, Matt Huenerfauth. 2020. “Recognizing American Sign Language Nonmanual Signal Grammar Errors in Continuous Videos.” In *Proceedings of the 2020 25th International Conference on Pattern Recognition (ICPR 2020)*. [35.6% paper-acceptance rate]
- [P.61] Saad Hassan, Larwan Berke, Elahe Vahdani, Longlong Jing, Yingli Tian, Matt Huenerfauth. 2020. “An Isolated-Signing RGBD Dataset of 100 American Sign Language Signs Produced by Fluent ASL Signers.” In *Proceedings of the LREC2020 9th Workshop on the Representation and Processing of Sign Languages: Sign Language Resources in the Service of the Language Community, Technological Challenges and Application Perspectives*. European Language Resources Association (ELRA), 89–94. <https://www.aclweb.org/anthology/2020.signlang-1.14>
- [P.60] Oliver Alonzo, Matthew Seita, Abraham Glasser, Matt Huenerfauth. 2020. “Automatic Text Simplification Tools for Deaf and Hard of Hearing Adults: Benefits of Lexical Simplification and Providing Users with Autonomy.” In *Proceedings of the 2020 ACM Conference on Human Factors in Computing Systems (CHI'20)*. New York, ACM. DOI: <https://doi.org/10.1145/3313831.3376563> [24% paper-acceptance rate]
- [P.59] Larwan Berke, Matthew Seita, Matt Huenerfauth. 2020. “Deaf and Hard-of-Hearing Users’ Prioritization of Genres of Online Video Content Requiring Accurate Captions.” In *Proceedings of the 17th International Web for All Conference - Automation for Accessibility (WAA'20)*. ACM, New York, NY, USA. DOI: <https://doi.org/10.1145/3371300.3383337> [41% paper-acceptance rate]
- [P.58] Sedeeq Al-khazraji, Becca Dingman, Matt Huenerfauth. 2020. “Empirical Investigation of Users’ Preferred Timing Parameters for American Sign Language Animations.” In *Proceedings of the 2020 ACM Conference on Human Factors in Computing Systems (CHI'20 Extended Abstracts)*. ACM, New York, NY, USA. DOI: <https://doi.org/10.1145/3334480.3382989> [41.8% paper-acceptance rate]
- [P.57] Matthew Seita, Matt Huenerfauth. 2020. “Deaf Individuals’ Views on Speaking Behaviors of Hearing Peers when Using an Automatic Captioning App.” In *Proceedings of the 2020 ACM Conference on Human Factors in Computing Systems (CHI'20 Extended Abstracts)*. ACM, New York, NY, USA. DOI: <https://doi.org/10.1145/3334480.3383083> [41.8% paper-acceptance rate]
- [P.56] Danielle Bragg, Oscar Koller, Mary Bellard, Larwan Berke, Patrick Boudreault, Annelies Braffort, Naomi Caselli, Matt Huenerfauth, Hernisa Kacorri, Tessa Verhoef, Christian Vogler, and Meredith Ringel Morris. 2019. “Sign Language Recognition, Generation, and Translation: An Interdisciplinary Perspective.” In *The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '19)*. ACM, New York, NY, USA, 16-31. DOI: <https://doi.org/10.1145/3308561.3353774> [26% paper-acceptance rate] **Conference Award: Best Paper Award, ASSETS 2019.**
- [P.55] Sushant Kafle, Peter Yeung, and Matt Huenerfauth. 2019. “Evaluating the Benefit of Highlighting Key Words in Captions for People who are Deaf or Hard of Hearing.” In *The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '19)*. ACM, New York, NY, USA, 43-55. DOI: <https://doi.org/10.1145/3308561.3353781> [26% paper-acceptance rate]
- [P.54] Oliver Alonzo, Abraham Glasser, and Matt Huenerfauth. 2019. “Effect of Automatic Sign Recognition Performance on the Usability of Video-Based Search Interfaces for Sign Language Dictionaries.” In *The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '19)*. ACM, New York, NY, USA, 56-67. DOI: <https://doi.org/10.1145/3308561.3353791> [26% paper-acceptance rate]
- [P.53] Sushant Kafle, Cecilia O. Alm, Matt Huenerfauth. 2019. “Fusion Strategy for Prosodic and Lexical Representations of Word Importance.” In *Proceedings of the 20th Annual Conference of the International Speech Communication Association (INTERSPEECH 2019)*, Graz, Austria. International Speech Communication Association. DOI: <http://dx.doi.org/10.21437/Interspeech.2019-1898>
- [P.52] Sushant Kafle, Cecilia O. Alm, Matt Huenerfauth. 2019. “Modeling Acoustic-Prosodic Cues for Word Importance Prediction in Spoken Dialogues.” In *Proceedings of the 8th Workshop on Speech and Language Processing for Assistive Technologies (SLPAT'19)*. Collocated with the 2019 Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL'19). Minneapolis, Minnesota, United States, June 7, 2019. DOI: <https://doi.org/10.18653/v1/W19-1702>
- [P.51] Larwan Berke, Khaled Albusays, Matthew Seita, Matt Huenerfauth. 2019. “Preferred Appearance of Captions Generated by Automatic Speech Recognition for Deaf and Hard-of-Hearing Viewers.” In

Proceedings of the 2019 ACM Conference on Human Factors in Computing Systems (CHI'19 Extended Abstracts). ACM, New York, NY, USA, 6 pages. DOI: <https://doi.org/10.1145/3290607.3312921>

- [P.50] Sedeeq Al-khazraji, Larwan Berke, Sushant Kafle, Peter Yeung and Matt Huenerfauth. 2018. “Modeling the Speed and Timing of American Sign Language to Generate Realistic Animations.” In *Proceedings of the 20th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '18)*. ACM, New York, NY, USA, 259-270. DOI: <https://doi.org/10.1145/3234695.3236356> [26% acceptance rate]
Conference Award: Best Paper Award, ASSETS 2018.
- [P.49] Matthew Seita, Khaled Albusays, Sushant Kafle, Michael Stinson and Matt Huenerfauth. 2018. “Behavioral Changes in Speakers who are Automatically Captioned in Meetings with Deaf or Hard-of-Hearing Peers.” In *Proceedings of the 20th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '18)*. ACM, New York, NY, USA , 68-80. DOI: <https://doi.org/10.1145/3234695.3236355> [26% paper-acceptance rate]
- [P.48] Yuancheng Ye, Yingli Tian, Matt Huenerfauth, and Jingya Liu. 2018. “Recognizing American Sign Language Gestures from within Continuous Videos.” In *Proceeding of the 8th IEEE International Workshop on Analysis and Modeling of Faces and Gestures (AMFG)* at CVPR 2018. DOI: <https://doi.org/10.1109/CVPRW.2018.00280>
- [P.47] Larwan Berke, Sushant Kafle, Matt Huenerfauth. 2018. “Methods for Evaluation of Imperfect Captioning Tools by Deaf or Hard-of-Hearing Users at Different Reading Literacy Levels.” In *Proceedings of the 2018 ACM Conference on Human Factors in Computing Systems (CHI'18)*. New York, ACM, Paper 91, 12 pages. DOI: <https://doi.org/10.1145/3173574.3173665> [25% paper-acceptance rate]
Conference Award: Best Paper Honorable Mention (top 5% of submissions), CHI 2018.
- [P.46] Sedeeq Al-khazraji, Sushant Kafle, Matt Huenerfauth. 2018. “Modeling and Predicting the Location of Pauses for the Generation of Animations of American Sign Language.” In *Proceedings of the 8th Workshop on the Representation and Processing of Sign Languages: Involving the Language Community, The 11th International Conference on Language Resources and Evaluation (LREC 2018)*, Miyazaki, Japan. http://lrec-conf.org/workshops/lrec2018/W1/pdf/18013_W1.pdf
- [P.45] Sushant Kafle, Matt Huenerfauth. 2018. “A Corpus for Modeling Word Importance in Spoken Dialogue Transcripts.” In *Proceedings of the 11th International Conference on Language Resources and Evaluation (LREC 2018)*, Miyazaki, Japan. <https://www.aclweb.org/anthology/L18-1016.pdf>
- [P.44] Stephanie Ludi, Matt Huenerfauth, Vicki Hanson, Nidhi Palan, and Paula Garcia. 2018. “Teaching Inclusive Thinking to Undergraduate Students in Computing Programs.” In *Proceedings of the 2018 ACM SIGCSE Technical Symposium on Computer Science Education (SIGCSE'18)*. ACM, New York, NY, USA, 717-722. DOI: <https://doi.org/10.1145/3159450.3159512> [35% paper-acceptance rate]
- [P.43] Sushant Kafle, Matt Huenerfauth. 2017. “Evaluating the Usability of Automatically Generated Captions for People who are Deaf or Hard of Hearing.” In *Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'17)*. ACM, New York, NY, USA , 165-174. DOI: <https://doi.org/10.1145/3132525.3132542> [26% paper-acceptance rate]
Conference Award: Best Paper Award, ASSETS 2017.
- [P.42] Matt Huenerfauth, Kasmira Patel, Larwan Berke. 2017. “Design and Psychometric Evaluation of an American Sign Language Translation of the System Usability Scale.” In *Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'17)*. ACM, New York, NY, USA, 175-184. DOI: <https://doi.org/10.1145/3132525.3132540> [26% paper-acceptance rate]
Conference Award: Best Paper Nominee (top 5% of submissions), ASSETS 2017.
- [P.41] Larwan Berke, Christopher Caulfield, Matt Huenerfauth. 2017. “Deaf and Hard-of-Hearing Perspectives on Imperfect Automatic Speech Recognition for Captioning One-on-One Meetings.” In *Proceedings of the 19th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'17)*. ACM, New York, NY, USA, 155-164. DOI: <https://doi.org/10.1145/3132525.3132541> [26% acceptance rate]

Details of 40 older conference papers on full academic CV: <http://huenerfauth.ist.rit.edu/huenerfauth-cv.pdf>

Invited Presentations and Guest Lectures

Invited Panelist:

- White House Disability Inclusive Technology Summit, American Association of People with Disabilities (AADP) and the White House, Washington, DC. “Accessibility in U.S. Computing Degrees.” Nov. 2016.
- CSUN Assistive Technology Conference, Anaheim, CA, USA. “Panel: Privacy, Ethics & People with Disabilities in the Age of AI.” March 2019.

Invited Keynote Speaker:

- Invited Keynote Speaker, First Workshop on Current Trends in Text Simplification (CTTS), Spanish Society for Natural Language Processing, Online. “Human-Computer Interaction and Automatic Text Simplification: Understanding the Perspective of Deaf and Hard of Hearing Users.” September 2021.
- Invited Keynote Speaker, International Workshop on Sign Language Translation and Avatar Technology (SLTAT), Federal Ministry of Labor and Social Affairs, Berlin, Germany. “Cyclic Data-Driven Research on American Sign Language Animation.” January 2011.

Invited Research Speaker:

- Sign Language Recognition Translation & Production (SLRTP) Workshop at EECV. 2020.
- Center for Gesture Sign and Language, The University of Chicago. 2019.
- Microsoft Research, AI for Accessibility Sign Language Workshop, Redmond, WA. 2019.
- U. Washington Computer Science and Engineering / Microsoft Research Summer Institute. 2016.
- Yahoo! headquarters, Sunnyvale, CA. TeachAccess Kickstart Workshop. April 2016.
- Department of Computer Science, University of Rochester. 2014.
- School of Communication and Information Sciences, Rutgers University. 2014.
- Center for Language and Speech Processing at Johns Hopkins University. 2006, 2014.
- International Linguistics Association, Monthly Lecture Series, New York, NY. 2013.
- Department of Linguistics, Montclair State University, Montclair, NJ. 2012.
- Summer Academy Colloquium, Computer Science & Engineering, University of Washington. 2012.
- Columbia Linguistics Society, Columbia University, New York, NY. 2011.
- School of Computing, University of Dundee, Scotland, United Kingdom. 2011.
- The Haskins Laboratories at Yale University. 2009.
- The Institute of Cognitive Science, University of Colorado, Boulder. 2006.
- Center for Cognitive Science, Rutgers University. 2009.
- Harvard-MIT Division of Health Sciences & Technology and MIT Department of EECS. 2006.

Teaching Experience and Curriculum Design

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

Research in Accessibility, ISTE-462, Human-Centered Computing B.S. program, RIT. Course designed: Spring 2017. Students explore research in the field of computer accessibility by reading, presenting, and discussing research literature from major conferences and journals. Students learn about recent developments in accessibility – and how to synthesize the results from research publications in a literature review.

Designing the User Experience, ISTE-260, undergraduate programs in iSchool, RIT. Course taught: 2015-2020. Students learn user-centered design principles and explore human computer interaction methods, from requirements analysis to creating the product vision through system prototyping and usability testing.

Foundations of Human-Computer Interaction, HCIN-610, Human Computer Interaction M.S. Program RIT. Course taught: 2014-2016. Course re-designed for 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: 2007-2012. 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, Graduate Programs in Linguistics and Computer Science, CUNY Graduate Center. Course materials created: Spring 2009. Course taught: 2009-2012. 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: 2011-2013. 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, CUNY Graduate Center. Course created and taught: Fall 2007. 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. Materials created: Fall 2006. Taught: 2006-2008. Computer science majors/minors take this core course in the curriculum, as prerequisite for most upper-level courses.

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

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

Student Research Advisement

Supervised the research of **over 125 students**, including over 55 women, over 50 Deaf or Hard of Hearing (DHH) individuals, and over 20 AALANA students. Students supervised include 17 PhD students (as primary advisor), 35+ masters students, 60+ undergraduate students, and 11 high school students.

Ph.D. Student Advisees Planning to Undertake Qualifying Examination in 2022:

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

Ph.D. Student Advisees Planning to Defend Proposal in 2022:

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

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

- Finalist for Best Poster Award, iConference, 2021.

Abraham Glasser, Ph.D. advisee, Computing & Information Sciences, RIT. Aug. 2019 to Present.

- Best Poster Award, ACM VRST Conference, 2019.
- First Place, Student Research Competition, ACM CHI Conference, 2019.

- Recipient of Honorable Mention in NSF Graduate Research Fellowship competition, 2018.
- Matthew Seita, Ph.D. advisee, Computing & Information Sciences, RIT. Aug. 2017 to Present.
- Recipient of NSF Graduate Research Fellowship, 2018.

Ph.D. Student Advisees Advanced to Candidacy (Proposal Defended):

Oliver Alonzo, Ph.D. advisee, Comp. & Info. Sciences, RIT. Aug. 2018 to Present. Proposal: Dec. 2021.

Former Ph.D. Student Advisees:

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

- Best Paper Award, Universal Access in Human Computer Interaction (UAHCI) Conference, 2019.
- Best Paper Award, ACM ASSETS Conference, 2018.

Larwan Berke, Ph.D. advisee, Comp. & Info. Sciences, RIT. Aug. 2015 to Dec. 2020.

- Pre-Tenure Faculty Member, Information Technology, Gallaudet University, Fall 2019.
- Best Paper Award, ACM ASSETS Conference, 2018 and 2019.
- Best Paper Honorable Mention, ACM CHI Conference, 2018.
- Recipient of Microsoft Research Dissertation Grant, 2019.
- Recipient of Google Lime Scholarship, 2019.
- Recipient of NSF Graduate Research Fellowship, 2017.

Khaled Albusays, Ph.D. advisee, Comp. & Info. Sciences, RIT. Aug. 2016 to Nov 2020. Graduated.

Sushant Kafle, Ph.D. advisee, Computing & Info. Sciences, RIT. Aug. 2015 to Dec. 2019. Graduated.

- After graduation: Software Engineer in Research, Google in Mountain View, California.
- Best Paper Award, ACM ASSETS Conference, 2017 and 2018.
- Best Paper Honorable Mention, ACM CHI Conference, 2018.

Paula Garcia, Ph.D. advisee, Computing & Info. Sciences, RIT. June 2018 to Dec. 2019. Graduated.

- After graduation: User Experience Researcher, Google in Mountain View, California.

Hernisa Kacorri, Ph.D. advisee, The Graduate Center, CUNY. Aug 2011 to Feb. 2016. Graduated.

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

Allen Harper, Ph.D. advisee, The Graduate Center, CUNY. Nov 2007 to June 2015. Graduated.

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

Josh Waxman, Ph.D. advisee, The Graduate Center, CUNY. Feb 2008 to June 2014. Graduated.

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

Pengfei Lu, Ph.D. advisee, The Graduate Center, CUNY. Aug. 2007 to Oct. 2013. Graduated.

- After graduation: Research Engineer at Intel in San Jose, California.
- Since Spring 2018: Research Engineer at Pearson in San Jose, California.

Lijun Feng, Ph.D. advisee, The Graduate Center, CUNY. April 2007 to Sept. 2010. Graduated.

- After graduation: Researcher at Standard and Poor's in New York, New York.

Additional student advisement details in full academic CV: <http://huenerfauth.ist.rit.edu/huenerfauth-cv.pdf>

External Media Coverage

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>

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>

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

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.

University News Coverage

RIT University News, Sept. 21, 2021, “RIT awarded nearly \$2 million for NSF Research Traineeship Program,” <https://www.rit.edu/news/rit-awarded-nearly-2-million-nsf-research-traineeship-program-aware-ai>

RIT University News, January 26, 2021, online programs offered by School of Information in Computing and Information Sciences featured in “RIT’s online degree programs ranked among nation’s best in 2021,” <https://www.rit.edu/news/rits-online-degree-programs-ranked-among-nations-best-2021>

RIT University News, Oct. 14, 2020, “National Science Foundation Convergence Accelerator awards \$1 million...,” <https://www.rit.edu/news/national-science-foundation-convergence-accelerator-awards-1-million-grant-team>

RIT University News, June 30, 2020, “Matt Huenerfauth named director of iSchool in GCCIS,” <https://www.rit.edu/news/matt-huenerfauth-named-director-ischool-gccis>

RIT University News, May 6, 2020, “RIT graduate Peter Yeung found perfect fit within university’s deaf community,” <https://www.rit.edu/news/rit-graduate-peter-yeung-found-perfect-fit-within-universitys-deaf-community>

RIT News and Events Daily, October 18, 2019, spotlight on scientific paper being accepted for presentation at the Theoretical issues in Sign Language Research conference in Hamburg, Germany, <https://www.rit.edu/ritnews/nandedaily.php?date=10%2F18%2F2019>

RIT University News, May 15, 2019, “RIT research helps artificial intelligence be more accurate, fair and inclusive,” <https://www.rit.edu/news/rit-research-helps-artificial-intelligence-be-more-accurate-fair-and-inclusive>

NTID Alumni News, March 13, 2019, “RIT/NTID team examines Nicaraguan sign language to determine whether languages change so they are easier to produce or to understand,” <https://www.rit.edu/ntid/alumninews/index.php/2019/03/rit-ntid-team-examines-nicaraguan-sign-language-to-determine-whether-languages-change-so-they-are-easier-to-produce-or-to-understand/>

RIT University News, November 20, 2018, “Improving ASL Communication,” <https://www.rit.edu/news/improving-asl-communication>

RIT Golisano College of Computing and Info. Sciences news, November 27, 2018, “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>

RIT University News, October 18, 2018, “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>

RIT University News, June 18, 2018, “Mapping AI at RIT,” <http://www.rit.edu/news/story.php?id=67089>

Research at RIT, Spring 2018, “RIT Experts Focus on User-Centered Design to Make Computing Accessible.”

RIT University News, November 28, 2017, “RIT researchers make big splash at international computing accessibility conference,” <http://www.rit.edu/news/story.php?id=65131>

RIT News and Events Daily, November 17, 2017, spotlight on being named an ACM Distinguished Member, <https://www.rit.edu/news/nandedaily.php?date=11%2F17%2F2017>

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

RIT University News, April 6, 2017, “Researchers honored by RIT: Reception celebrates funding awards and induction of 11 new ‘PI Millionaires.’” <https://www.rit.edu/news/story.php?id=60786>

RIT News and Events Daily, December 9, 2016, “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>

RIT Athenaeum: News and Insight from Rochester Institute of Technology, December 2016 to January 2017, 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*, November 9, 2015 edition, in which the President discussed academic success and research at RIT, <https://youtu.be/u0jKdrQmhSE?t=53s>

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

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

Research at RIT, Fall/Winter 2014-5, featured in an article entitled “Future of Research.”

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

Teaching Assistant. Computer and Information Science Dept., U. Pennsylvania.	Fall 2003 to Spring 2005
Program Manager Intern. Microsoft Corporation, Natural Language Group.	Summer 2000, Summer 2001
Research Assistant. Computer and Information Science Department, University of Delaware.	1998 to 2001
Teaching Assistant. Computer and Information Science Department, University of Delaware.	Fall 1999
Teaching Assistant. Pennsylvania Governor's School of Excellence for the Sciences.	Summer 1999

Professional Memberships

Association for Computing Machinery (ACM)

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

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