Dr. Garreth W. Tigwell
Assistant Professor
www.garrethtigwell.com

School of Information
B. Thomas Golisano College of Computing and Information Sciences
Rochester Institute of Technology

Short Biography

I research improving the accessibility of digital spaces for people with congenital, acquired, or situational impairments by supporting designers to improve the accessibility of their work.

Contact Information

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Academic Employment

Rochester Institute of Technology (RIT)
- Assistant Professor, School of Information; August 2019 – Present

University of Dundee (UoD) *short term contract*
- Postdoctoral researcher, Discipline of Computing; May 2019 – July 2019

Education

PhD in Human-Computer Interaction
University of Dundee; March 2015 – May 2019
Improving Content Design on Mobile Devices to Reduce Situational Visual Impairments
Supervised by Dr. David Flatla and Dr. Rachel Menzies

MSc in User Experience Engineering (Awarded Distinction)
University of Dundee; September 2013 – September 2014
Choosing Accessible Web Colours for Web Developers and Designers
Supervised by Dr. David Flatla

BSc with Honours in Psychology (Awarded Upper Second-Class)
University of Dundee; September 2008 – June 2012
Belief-desire reasoning: A further comparison between bilingual and monolingual speakers
Supervised by Dr. Alissa Melinger

Grants and Funding

Awarded (PI total: $12,492; Total across all projects: $2,176,184)

- Matt Huenerfauth (PI), **Garreth W. Tigwell (Co-PI)**. August 2022 – July 2025. "*HCC: Medium: Collaborative Research: Linguistically-Driven Sign Recognition from Continuous Signing for American Sign Language (ASL)*". National Science Foundation. Award No. 2212303. Award total: **$165,014**.

- Cecilia Alm (PI), Reynold Bailey (Co-PI), Esa Rantanen (Co-PI), Ferat Sahin (Co-PI), Kristen Shinohara (Co-PI, as of Aug 2022), Rain Bosworth (Senior Personnel), Gabriel Diaz (Senior Personnel), Matt Huenerfauth (Senior Personnel as of Aug 2022), Christopher Kanan (Senior Personnel), **Garreth W. Tigwell (Senior Personnel as of Aug 2022)**. Sep 2021 – Aug 2026. "*NRT-AI: AWARE-AI: AWAREness for Sensing Humans Responsibly with AI*". National Science Foundation. Award No. 2125362. Award total: **$1,994,676**.

- **Garreth W. Tigwell (PI).** January 2022 – December 2022. "Designing Adaptive User Interfaces for Augmented Reality During Textured Surface Interaction". GCCIS Research & Scholarship Award. Award total: **$7,525.**

- **Garreth W. Tigwell (PI).** May 2020 – December 2021. "*Identifying Opportunities and Challenges in the Design Process to Increasing Collaborations Between Designers and Disabled People*". RIT Grant Writers' Boot Camp 2020 seed funding. Award total: **$4,967**.

- Benjamin Gorman (PI), **Garreth W. Tigwell (Co-PI)**, Erin Brady (Collaborator), Rachel Menzies (Collaborator). June 2019 – December 2019. "*Accessible Emoji*". Bournemouth University Acorn Fund. Award total: **£4,002**.

Awards and Special Recognition

2023   Two recognitions for outstanding CHI 2023 paper reviews.
2022   Best Paper award for MobileHCI 2022 (see publication J.4).
2022   One recognition for outstanding CSCW 2022 January review.
2022   Four recognitions for outstanding CHI 2022 paper reviews.
2021   One recognition for an outstanding CHI 2021 paper review.
2020   Two recognitions for outstanding CHI 2020 paper reviews.
2009   NCR Corporation Award for Top Level 1 Applied Computing Student, University of Dundee.

Service to Profession

Conference Program and Organizing Committees (Total: 12)

2023   **Program Committee**, Associate Chair (AC), Technical Papers, The ACM CHI Conference on Human Factors in Computing Systems, Hamburg, Germany.
2022   **Co-Chair**, Experience Report, The 24th International ACM SIGACCESS Conference on Computers and Accessibility, Athens, Greece.
2022   **Co-Chair**, Accessibility, The ACM CHI Conference on Human Factors in Computing Systems, New Orleans, Louisiana.
2021   **Chair**, Proceedings, The 23rd International ACM SIGACCESS Conference on Computers and Accessibility, Virtual (due to COVID-19).
2021   **Co-Chair**, App & e-Rights, The 2021 ACM CHI Conference on Human Factors in Computing Systems, Virtual (due to COVID-19).
2020   **Co-Chair**, Doctoral Consortium, The 22nd International ACM SIGACCESS Conference on Computers and Accessibility, Virtual (due to COVID-19).
2020   **Program Committee**, Technical Papers and Poster Papers, The 22nd International ACM SIGACCESS Conference on Computers and Accessibility, Virtual (due to COVID-19).
2019   **Program Committee**, Associate Chair (AC), Late Breaking Work, The ACM CHI Conference on Human Factors in Computing Systems, Glasgow, Scotland.
2018   **Program Committee**, Associate Chair (AC), Late Breaking Work, The ACM CHI Conference on Human Factors in Computing Systems, Montréal, Canada.
2017   **Organizing Committee**, Scottish Informatics and Computer Science Alliance PhD Conference.
2017   **Senior Co-Chair**, University of Dundee Computing PhD Symposium.
2016   **Junior Co-Chair**, University of Dundee Computing PhD Symposium.

Conference Student Volunteer (Total: 4)

2019   **Student Volunteer**, Accessibility and Aging subcommittee Program Committee meeting, The ACM CHI Conference on Human Factors in Computing Systems, Glasgow, Scotland.

2018   **Student Volunteer**, Various Roles, The 20th International ACM SIGACCESS Conference on Computers and Accessibility, Galway, Ireland.
2018   **Student Volunteer**, Various Roles, The ACM CHI Conference on Human Factors in Computing Systems, Montréal, Canada.
2017   **Student Volunteer**, Various Roles, The ACM CHI Conference on Human Factors in Computing Systems, Denver, Colorado.

Mentoring (Total: 2)
2021   **Accessibility Mentor**, offer advice to students taking part in Columbia University's premier student-led annual diversity hackathon called DivHacks. Virtual, Columbia University. October 9, 2021.
2018   **Senior PhD Mentor**, offer advice and support to the PhD students in attendance, Scottish Informatics and Computer Science Alliance HCI Doctoral Consortium held at Robert Gordon University. June 27, 2018.

Reviewing Academic Papers (2015-Present)
I have reviewed for the following venues: ACM ASSETS, ACM CHI, ACM CSCW, ACM DIS, ACM ISS, ACM MobileHCI, ACM Transactions on Accessible Computing (TACCESS), ACM Transactions on Computer-Human Interaction (TOCHI), Graphic Interface (GI), International Journal of Human–Computer Interaction (IJHCI), International Journal of Human-Computer Studies (IJHCS), Universal Access in the Information Society.

Scholarship — [UG] = undergraduate student and [G] = graduate student at time of conducting the research

Journal papers (Peer Reviewed)
J.5   Sarah Andrew [G] and **Garreth W. Tigwell**. 2022. Accessible Design is Mediated by Job Support Structures and Knowledge Gained Through Design Career Pathways. Proc. ACM Hum.-Comput. Interact. 6, CSCW2, Article 487 (November 2022), 24 pages. https://doi.org/10.1145/3555588

J.4   Manisha Kamarushi [G], Stacey L. Watson, **Garreth W. Tigwell**, and Roshan L. Peiris. 2022. OneButtonPIN: A Single Button Authentication Method for Blind and Low Vision Users to Improve Accessibility and Prevent Eavesdropping. *Proc. ACM Hum.-Comput. Interact*. 6, MHCI, Article 212 (September 2022), 22 pages. https://doi.org/10.1145/3546747 [**Best Paper**]

J.3   Rachel Menzies, **Garreth W. Tigwell**, and Michael Crabb. 2022. Author Reflections on Creating Accessible Academic Papers. *ACM Trans. Access. Comput*. *(TACCESS)*. 15, 4, Article 33 (December 2022), 36 pages. https://doi.org/10.1145/3546195

J.2   Jaisie Sin [G], Cosmin Munteanu, Michael Nixon, Velian Pandeliev, **Garreth W. Tigwell**, Kristen Shinohara, Anthony Tang, and Steve Szigeti. 2022. Uncovering inclusivity gaps in design pedagogy through the digital design marginalization framework. Front. Comput. Sci. 4:822090. https://doi.org/10.3389/fcomp.2022.822090

J.1   **Garreth W. Tigwell** [G], David R. Flatla, and Neil D. Archibald [UG]. 2017. ACE: A Colour Palette Design Tool for Balancing Aesthetics and Accessibility. *ACM Trans. Access. Comput*. *(TACCESS)*. 9, 2, Article 5 (January 2017), 32 pages. https://doi.org/10.1145/3014588

Conference papers (Peer Reviewed)
C.9   Laleh Nourian [G], Kristen Shinohara, and **Garreth W. Tigwell**. 2023. Understanding Discussions Around Culture Within Courses Covering Topics on Accessibility and Disability at U.S. Universities. In *CHI Conference on Human Factors in Computing Systems (CHI '23)*, April 23–28,

2023, Hamburg, Germany. ACM, New York, NY, USA, 14 pages. DOI: 10.1145/3544548.3581533 [Acceptance rate: 28.39%]

C.8   Esha Shandilya [G], Mingming Fan, and **Garreth W. Tigwell**. 2022. "I need to be professional until my new team uses emoji, GIFs, or memes first": New Collaborators' Perspectives on Using Non-Textual Communication in Virtual Workspaces. In *CHI Conference on Human Factors in Computing Systems (CHI '22)*, April 29-May 5, 2022, New Orleans, LA, USA. ACM, New York, NY, USA, 13 pages. DOI: 10.1145/3491102.3517514 [Acceptance rate: 24.7%]

C.7   Connor Geddes [G], David R. Flatla, **Garreth W. Tigwell**, and Roshan L. Peiris. 2022. Improving Colour Patterns to Assist People with Colour Vision Deficiency. In *CHI Conference on Human Factors in Computing Systems (CHI '22)*, April 29-May 5, 2022, New Orleans, LA, USA. ACM, New York, NY, USA, 17 pages. DOI: 10.1145/3491102.3502024 [Acceptance rate: 24.7%]

C.6   **Garreth W. Tigwell**. 2021. Nuanced Perspectives Toward Disability Simulations from Digital Designers, Blind, Low Vision, and Color Blind People. In *CHI Conference on Human Factors in Computing Systems (CHI '21)*, May 8–13, 2021, Yokohama, Japan. ACM, New York, NY, USA, 15 pages. DOI: 10.1145/3411764.3445620 [Acceptance rate: 26.3%]

C.5   Junchen Li [G], **Garreth W. Tigwell**, and Kristen Shinohara. Accessibility of High-Fidelity Prototyping Tools. 2021. In *CHI Conference on Human Factors in Computing Systems (CHI '21)*, May 8–13, 2021, Yokohama, Japan. ACM, New York, NY, USA, 13 pages. DOI: 10.1145/3411764.3445520 [Acceptance rate: 26.3%]

C.4   **Garreth W. Tigwell** and Michael Crabb. 2020. Household Surface Interactions: Understanding User Input Preferences and Perceived Home Experiences. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI '20)*. Association for Computing Machinery, New York, NY, USA, 1–14. DOI: 10.1145/3313831.3376856 [Acceptance rate: 24.3%]

C.3   **Garreth W. Tigwell**, Benjamin M. Gorman, and Rachel Menzies. 2020. Emoji Accessibility for Visually Impaired People. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI '20)*. Association for Computing Machinery, New York, NY, USA, 1–14. DOI: 10.1145/3313831.3376267 [Acceptance rate: 24.3%]

C.2   **Garreth W. Tigwell** [G], David R. Flatla, and Rachel Menzies. 2018. It's Not Just the Light: Understanding the Factors Causing Situational Visual Impairments During Mobile Interaction. In *Proceedings of the 10th Nordic Conference on Human-Computer Interaction (NordiCHI '18)*. Association for Computing Machinery, New York, NY, USA, 338–351. DOI: 10.1145/3240167.3240207 [Acceptance rate: 24%]

C.1   **Garreth W. Tigwell** [G], Rachel Menzies, and David R. Flatla. 2018. Designing for Situational Visual Impairments: Supporting Early-Career Designers of Mobile Content. In *Proceedings of the 2018 Designing Interactive Systems Conference (DIS '18)*. Association for Computing Machinery, NY, USA, 387–399. DOI: 10.1145/3196709.3196760 [Acceptance rate: 22.9%]

Book Chapters (Accepted by peer review of conference paper or extended abstract submissions)

B.2   Chloe Keilers [G], **Garreth W. Tigwell**, and Roshan Peiris. (to appear, 2023). Investigating the Accessibility of Data Visualization for Blind and Low Vision Users Across Different Mediums. In *Universal Access in Human-Computer Interaction*. Lecture Notes in Computer Science. Springer. [HCII '23 conference paper]

B.1   Katerina Gorkovenko [G], **Garreth W. Tigwell** [G], Christopher S. Norrie [G], Miriam Waite [G], and Daniel Herron [G]. 2017. ShopComm: Community-Supported Online Shopping for Older Adults. In Peter Cudd and Luc de Witte (Eds.) *Harnessing the Power of Technology to Improve Lives*

(pp. 175-182). Studies in Health Technology and Informatics, vol 242. IOS Press. DOI: 10.3233/978-1-61499-798-6-175 [AAATE '17 conference paper]

Consortium papers (Juried)

Cnsrt.1 **Garreth W. Tigwell**, Kristen Shinohara, and Michael McQuaid. 2021. If You Don't Build It, They Won't Come: HCI has an Inaccessibility Problem. In *Human Computer Interaction Consortium (HCIC)*, June 20-24, 2021, Virtual Event. 5 pages. https://www.researchgate.net/publication/352262053_If_You_Don%27t_Build_It_They_Won%27t_Come_HCI_has_an_Inaccessibility_Problem

Experience Reports (Peer Reviewed)

ExpR.1 **Garreth W. Tigwell**, Roshan L. Peiris, Stacey Watson, Gerald M. Garavuso, and Heather Miller. 2020. Student and Teacher Perspectives of Learning ASL in an Online Setting. In *The 22nd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '20)*, October 26–28, 2020, Virtual Event, Greece. ACM, New York, NY, USA, 6 pages. DOI: 10.1145/3373625.3417298 [Acceptance rate: 57%]

Poster papers (Peer Reviewed/Juried)

P.13 Sarah Andrew [G], Stacey Watson, Tae Oh, and **Garreth W. Tigwell**. 2023. Authentication Challenges in Customer Service Settings Experienced by Deaf and Hard of Hearing People. In Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems (CHI EA '23), April 23– 28, 2023, Hamburg, Germany. ACM, New York, NY, USA, 8 pages. DOI: 10.1145/3544549.3585707 [Acceptance rate: 34%]

P.12 Nash Lyke [G], Benjamin M. Gorman, and **Garreth W. Tigwell**. 2023. Exploring the Accessibility of Crypto Technologies. In Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems (CHI EA '23), April 23–28, 2023, Hamburg, Germany. ACM, New York, NY, USA, 10 pages. DOI: 10.1145/3544549.3585746 [Acceptance rate: 34%]

P.11 Athira Pillai [G], Kristen Shinohara, and **Garreth W. Tigwell**. 2022. Website Builders Still Contribute To Inaccessible Web Design. In *The 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '22)*, October 23–26, 2022, Athens, Greece. ACM, New York, NY, USA, 4 pages. DOI: 10.1145/3517428.3550368 [Acceptance rate: 59%]

P.10 Urvashi Kokate [G], Kristen Shinohara, and **Garreth W. Tigwell**. 2022. Exploring Accessibility Features and Plug-ins for Digital Prototyping Tools. In The 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '22), October 23–26, 2022, Athens, Greece. ACM, NY, USA, 4 pages. DOI: 10.1145/3517428.3550391 [Acceptance rate: 59%]

P.9 Laleh Nourian [G], Kristen Shinohara, and **Garreth W. Tigwell**. 2022. Digital Accessibility in Iran: An Investigation Focusing on Iran's National Policies on Accessibility and Disability Support. In *The 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '22)*, October 23–26, 2022, Athens, Greece. ACM, New York, NY, USA, 5 pages. DOI: 10.1145/3517428.3550385 [Acceptance rate: 59%]

P.8 Becca Dingman [G], **Garreth W. Tigwell**, and Kristen Shinohara. 2021. Interview and Think-Aloud Accessibility for Deaf and Hard of Hearing Participants in Design Research. In *The 23rd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '21)*, October 18–22, 2021, Virtual Event, USA. ACM, New York, NY, USA, 3 Pages. DOI: 10.1145/3441852.3476526 [Acceptance rate: 61.8%]

P.7 Becca Dingman [G], **Garreth W. Tigwell**, and Kristen Shinohara. 2021. Designing a Podcast Platform for Deaf and Hard of Hearing Users. In *The 23rd International ACM SIGACCESS*

Conference on Computers and Accessibility (ASSETS '21), October 18–22, 2021, Virtual Event, USA. ACM, NY, USA, 4 Pages. DOI: 10.1145/3441852.3476523 [Acceptance rate: 61.8%]

P.6   Trinh Le [G], Hashini Senaratne [G], Michael McQuaid, and **Garreth W. Tigwell**. 2021. Exploring a Multifaceted Framework to Support the Design of Mobile Apps for Self-Regulating Anxiety. In *CHI Conference on Human Factors in Computing Systems Extended Abstracts (CHI '21 Extended Abstracts)*, May8–13, 2021, Yokohama, Japan. ACM, New York, NY, USA, 7 pages. DOI: 10.1145/3411763.3451645 [Acceptance rate: 39%]

P.5   Sarah Andrew [G], Stacey Watson, Tae Oh, and **Garreth W. Tigwell**. 2020. A Review of Literature on Accessibility and Authentication Techniques. In *The 22nd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '20)*, October 26–28, 2020, Virtual Event, Greece. ACM, New York, NY, USA, 4 pages. DOI: 10.1145/3373625.3418005 [Acceptance rate: 61.5%]

P.4   Rachel Menzies, Benjamin M. Gorman, and **Garreth W. Tigwell**. 2020. Reflections on Using Chat-Based Platforms for Online Interviews with Screen-Reader Users. In *The 22nd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '20)*, October 26–28, 2020, Virtual Event, Greece. ACM, New York, NY, USA, 4 pages. DOI: 10.1145/3373625.3418000 [Acceptance rate: 61.5%]

P.3   Rachel Menzies, **Garreth W. Tigwell**, and Mandar Tamhane [UG], and Annalu Waller. 2019. Weaving Accessibility Through an Undergraduate Degree. In *The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '19)*. Association for Computing Machinery, New York, NY, USA, 526–529. DOI: 10.1145/3308561.3354611 [Acceptance rate: 59%]

P.2   Kerr Macpherson [UG], **Garreth W. Tigwell** [G], Rachel Menzies, and David R. Flatla. 2018. BrightLights: Gamifying Data Capture for Situational Visual Impairments. In *Proceedings of the 20th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '18)*. Association for Computing Machinery, New York, NY, USA, 355–357. DOI: 10.1145/3234695.3241030 [Acceptance rate: 58%]

P.1   **Garreth W. Tigwell** [G] and David R. Flatla. 2016. Oh that's what you meant! reducing emoji misunderstanding. In *Proceedings of the 18th International Conference on Human-Computer Interaction with Mobile Devices and Services Adjunct (MobileHCI '16)*. Association for Computing Machinery, New York, NY, USA, 859–866. DOI: 10.1145/2957265.2961844

Workshop papers and proposals (Peer-reviewed/Juried)

W.5   **Garreth W. Tigwell**, Kristen Shinohara, and Laleh Nourian [G] (2021). Accessibility Across Borders. In *CHI Conference on Human Factors in Computing Systems (CHI'21) Workshop: Decolonizing HCI Across Borders*, May 8–13, 2021, Yokohama, Japan. ACM, New York, NY, USA, 4 pages. https://arxiv.org/abs/2105.01488

W.4   Cole Gleason [G], Patrick Carrington, Lydia B. Chilton, Benjamin M. Gorman, Hernisa Kacorri, Andrés Monroy-Hernández, Meredith Ringel Morris, **Garreth W. Tigwell**, and Shaomei Wu. 2019. Addressing the Accessibility of Social Media. In *Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing (CSCW '19)*. Association for Computing Machinery, New York, NY, USA, 474–479. DOI: 10.1145/3311957.3359439

W.3   **Garreth W. Tigwell** [G], Zhanna Sarsenbayeva [G], Benjamin M. Gorman, David R. Flatla, Jorge Goncalves, Yeliz Yesilada, and Jacob O. Wobbrock (2019). Addressing the Challenges of Situationally-Induced Impairments and Disabilities in Mobile Interaction. In *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems (CHI EA '19)*.

Association for Computing Machinery, New York, NY, USA, Paper W30, 1–8. DOI: 10.1145/3290607.3299029 [Acceptance rate: 31%]

W.2   Michael Crabb, Rachel Menzies, **Garreth W. Tigwell** [G], Daniel Clarke, Christopher Lim, and Cara Henderson [G] (2019) Take a GANDER. Gathering Accessibility Needs by Doing Explorative Research. *The Design Journal*, 22:sup1, 2303-2306, DOI: 10.1080/14606925.2019.1595040

W.1   Michael Mauderer, **Garreth W. Tigwell** [G], Benjamin M. Gorman [G], and David R. Flatla (2017). Beyond accessibility: Lifting perceptual limitations for everyone. *Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems Workshop*: *Amplification and Augmentation of Human Perception*. Association for Computing Machinery, New York, NY, USA, 5 pages. http://arxiv.org/abs/1709.08957

Magazine and Newsletter Articles

Mag.3   Kristen Shinohara and **Garreth W. Tigwell**. 2021. Why getting more people with disabilities developing technology is good for everyone. *The Conversation*. June 3, 2021. https://theconversation.com/why-getting-more-people-with-disabilities-developing-technology-is-good-for-everyone-159619

- Picked up by well-known publishers such as Fast Company and Salon.
- Actively Learn turned the article into an assignment for middle and high school students: https://reader.activelylearn.com/authoring/preview/4023344/notes

Mag.2   **Garreth W. Tigwell**, Zhanna Sarsenbayeva, Benjamin M. Gorman, David R. Flatla, Jorge Goncalves, Yeliz Yesilada, and Jacob O. Wobbrock (2020). Future Directions for Situationally Induced Impairments and Disabilities Research. *Interaction*. Association for Computing Machinery.

Mag.1   Cole Gleason, Patrick Carrington, Lydia B. Chilton, Benjamin M. Gorman, Hernisa Kacorri, Andrés Monroy-Hernández, Meredith Ringel Morris, **Garreth W. Tigwell**, and Shaomei Wu. 2020. Future research directions for accessible social media. SIGACCESS Access. Comput., 127, Article 3 (June 2020), 12 pages. DOI: 10.1145/3412836.3412839

Interviews

Int.1   Freedom Scientific Official Podcast. Episode "FSCast 202" discussing emoji accessibility. Host: Glen Gordon. Interviewees: **Garreth W. Tigwell** and Benjamin M. Gorman https://blog.freedomscientific.com/fscast-202-financial-educator-chris-peterson-plus-emoji-accessibility-with-garreth-tigwell-and-benjamin-gorman/ July 13, 2021.

Invited Talks (total: 12)

2023   "*Accessible Design Research and HCI*". Munsell Color Science Lab Meeting at the Rochester Institute of Technology. February 2, 2023.

2023   "*Utilizing the Experience Sampling Method for More Ecologically Valid Qualitative Data Collection*". AWARE-AI NSF Research Traineeship Winter Retreat at the Rochester Institute of Technology. January 18, 2023.

2022   "*From a Psychology Degree to Research in Accessibility and Human-Computer Interaction*". Psychology External Seminar Series at the University of Dundee. December 1, 2022.

2022   "*Ensuring Academic Papers are Accessible*". RIT Library's Scholarship in the 21st Century series (Improving Accessibility in Digital Publishing) at the Rochester Institute of Technology. October 20, 2022.

2022   "*Understanding Current Accessible Design Challenges and How We Can Address the Issue*".
        Clemson Computing Inclusion and Identity program (CCII) and School of Computing Seminar
        Speaker Series at Clemson University. October 7, 2022.

2022   "*Let's Talk Accessible Design*". HCI workshop iSchool at Syracuse University. August 5, 2022.

2022   "*Addressing the Issue of Inaccessible Design*". UCLIC Research Seminar Series at the
        University College London. March 2, 2022.

2022   "*Emoji Accessibility*". Emoji Research Reading Group at Google. January 26, 2022.

2021   "*Supporting Digital Designers in Creating Accessible Content*". GCCIS PhD Colloquium Series
        at the Rochester Institute of Technology. April 30, 2021.

2021   "*Future Interactions*". The User Experience Club at the Rochester Institute of Technology.
        April 29, 2021.

2020   "*Improving Accessibility and Usability Through Design*". Guest Lecture Talk for the
        undergraduate Introduction to HCI course at the University of Rochester. November 18,
        2020.

2020   "*Surviving an Unknown Future by Focusing on Research at the End of a PhD*". GCCIS PhD
        Colloquium Series at the Rochester Institute of Technology. February 21, 2020.

2019   "*Supporting People Through Research*". Seminar Talk at Bournemouth University. April 5,
        2019.

2018   "*Improving Content Design on Mobile Devices to Reduce Situational Visual Impairments*". PhD
        Mentor Talk. Scottish Informatics and Computer Science Alliance HCI Doctoral Consortium
        held at Robert Gordon University. June 27, 2018.

Organized Workshops and Activities (total: 5)

2020   Michael Crabb, Rachel Menzies, Benjamin M. Gorman, and **Garreth W. Tigwell**. Teaching
        Accessibility in Computing Workshop. *Scottish Informatics and Computer Science Alliance*.
        Held virtually on October 7, 2020.
        - A SICSA workshop that explored the state of accessibility teaching in Scotland through
          discussion of our collective experiences.

2019   Cole Gleason [G], Patrick Carrington, Lydia B. Chilton, Benjamin M. Gorman, Hernisa Kacorri,
        Andrés Monroy-Hernández, Meredith Ringel Morris, **Garreth W. Tigwell**, and Shaomei Wu.
        Addressing the Accessibility of Social Media. The *22nd ACM Conference on Computer-
        Supported Cooperative Work and Social Computing*. Held in Austin, Texas on November 10,
        2019.
        - A CSCW workshop that forged collaborations between researchers and practitioners, and
          defined high-priority accessibility challenges for social media platforms.
          https://socialandaccessible.wordpress.com/

2019   **Garreth W. Tigwell** [G], Zhanna Sarsenbayeva [G], Benjamin M. Gorman, David R. Flatla, Jorge
        Goncalves, Yeliz Yesilada, and Jacob O. Wobbrock. Addressing the Challenges of Situationally-
        Induced Impairments and Disabilities in Mobile Interaction. The *ACM CHI Conference on
        Human Factors in Computing Systems 2019*. Held in Glasgow, Scotland on May 5, 2019.
        - A CHI workshop that brought together researchers working on understanding, sensing,
          modelling, and adapting technologies to ameliorate the effects of Situationally-Induced
          Impairments and Disabilities. Acceptance rate: 31%. https://siid2019.wordpress.com

2019   Michael Crabb, Rachel Menzies, **Garreth W. Tigwell** [G], Daniel Clarke, Christopher Lim, and
        Cara Henderson [G]. Take a GANDER. Gathering Accessibility Needs by Doing Explorative

Research. The *13th International Conference of the European Academy of Design*. Held in Dundee, Scotland on April 12, 2019.

- A walk where participants would interact with their devices, which were simultaneously collecting environmental and eye-tracking data to provide ecologically valid data on the effects of situational impairments.

2017　**Garreth W. Tigwell** [G], Nadia Taou [G], Sasa Radomirovic, Benjamin M. Gorman [G], Keith Edwards, David R. Flatla, and Alison Pease. Academic Writing with LaTeX. The *Scottish Informatics and Computer Science Alliance PhD Conference*. Held in Dundee, Scotland on June 28, 2017.

- A workshop that introduced PhD students to the process of writing documents in LaTeX.

Doctoral Consortium Participation (total: 2)

2016　Scottish Informatics and Computer Science Alliance HCI Doctoral Consortium at the University of Strathclyde. June 29, 2016.

2015　Scottish Informatics and Computer Science Alliance HCI Doctoral Consortium at the University of Dundee. August 24, 2015.

Conference Paper and Poster presentations I have delivered (total: 22)

2022　"*Website Builders Still Contribute To Inaccessible Web Design*". The 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS), October 23–26, 2022.

2022　"*Exploring Accessibility Features and plug-ins for Digital Prototyping Tools*". The 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS), October 23–26, 2022.

2022　"*Digital Accessibility in Iran: An Investigation Focusing on Iran's National Policies on Accessibility and Disability Support*". The 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS), October 23–26, 2022.

2021　"Designing a Podcast Platform for Deaf and Hard of Hearing Users". The 23rd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS), October 18–22, 2021. Virtual presentation due to COVID-19.

2021　"*If You Don't Build It, They Won't Come: HCI has an Inaccessibility Problem*". The Human-Computer Interaction Consortium (HCIC). June 20 – 24, 2021. Virtual presentation due to COVID-19.

2021　"*Nuanced Perspectives Toward Disability Simulations from Digital Designers, Blind, Low Vision, and Color Blind People*". The 2021 ACM CHI Conference on Human Factors in Computing Systems (CHI). May 8 – 13, 2021. Virtual presentation due to COVID-19.

2020　"*Household Surface Interactions: Understanding User Input Preferences and Perceived Home Experiences*". The ACM International Conference on Interactive Surfaces and Spaces (ISS). November 8 – 11, 2020. Invited as a CHI author. Virtual presentation due to COVID-19.

2020　"*Student and Teacher Perspectives of Learning ASL in an Online Setting*". The 22nd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS). October 26 – 28, 2020. Virtual presentation due to COVID-19.

2020　"*Emoji Accessibility for Visually Impaired People*". SICSA PreCHI day. May 12, 2020. Virtual presentation due to COVID-19.

2020　"*Household Surface Interactions: Understanding User Input Preferences and Perceived Home Experiences*". SICSA PreCHI day. May 12, 2020. Virtual presentation due to COVID-19.

2020   "*Emoji Accessibility for Visually Impaired People*". The ACM CHI Conference on Human Factors in Computing Systems (CHI). Conference cancelled due to COVID-19 and recorded video put online.

2020   "*Household Surface Interactions: Understanding User Input Preferences and Perceived Home Experiences*". The ACM CHI Conference on Human Factors in Computing Systems (CHI). Conference cancelled due to COVID-19 and recorded video put online.

2019   "*Weaving Accessibility Through an Undergraduate Degree*". The 21st International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS). October 28 – 30, 2019.

2018   "*BrightLights: Gamifying Data Capture for Situational Visual Impairments*". The 20th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS). October 22 – 24, 2018.

2018   "It's not just the light: understanding the factors causing situational visual impairments during mobile interaction". The 10th Nordic Conference on Human-Computer Interaction (NordiCHI). October 1 – 3, 2018.

2018   "*It's Not Just the Light: Situational Visual Impairments During Mobile Interaction*". Scottish Informatics and Computer Science Alliance PhD Conference held at Robert Gordon University. June 28 – 29, 2018.

2018   "*Designing for Situational Visual Impairments: Supporting Early-Career Designers of Mobile Content*". The ACM SIGCHI Conference on Designing Interactive Systems (DIS). June 9 – 13, 2018.

2018   "*Improving Content Design on Mobile Devices to Reduce Situational Visual Impairments*". Annual Computing PhD Symposium, University of Dundee. May 16 – 17, 2018. 30 minutes.

2017   "*ACE: A Colour Palette Design Tool for Balancing Aesthetics and Accessibility*". The 19th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS). October 30 – November 1, 2017.

2017   "*It's not just the light: Situational Visual Impairment During Mobile Interaction*". Scottish Informatics and Computer Science Alliance PhD Conference held at the University of Dundee. June 27 – 28, 2017.

2017   "*Improving Content Visibility on Mobile Devices Under Bright Lighting*". Annual Computing PhD Symposium, University of Dundee. May 23 – 24, 2017. 30 minutes.

2016   ""*Oh that's what you meant!": Reducing Emoji Misunderstanding*". The 18th International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI). September 6 – 9, 2016.

2016   "*Improving Content Visibility on Mobile Devices under varying lighting*". Annual Computing PhD Symposium, University of Dundee. May 23 – 24, 2016. 30 minutes.

2015   "*Improving Intercultural Human-to-Human Interaction Through Nonverbal Visualisation*". Scottish Informatics and Computer Science Alliance PhD Conference held at the University of Glasgow. June 24 – 25, 2015.

2015   "*Improving Intercultural Human-to-Human Interaction through Non-verbal Visualisation*". Annual Computing PhD Symposium, University of Dundee. May 25 – 26, 2015. 15 minutes.

2012   "*Belief-desire reasoning: A further comparison between bilingual and monolingual speakers*". BPS Scottish Undergraduate Dissertation Conference held at the University of Glasgow. March 17, 2012.

Outreach and Public Engagement

2018   I helped demo BrightLights to an industry audience attending the Scottish Informatics and Computer Science Alliance's DemoFest. Developed by University of Dundee undergraduate student Kerr Macpherson. Dynamic Earth, Edinburgh, November 6, 2018.

2014 – 2018   Volunteer for Computing University of Dundee Strathmore Trophy. The Strathmore Trophy competition is an annual event that began in 1996. S1/S2 level high school students are invited to take part in a computing-related challenge. Previous challenges include designing "Technology T-Shirts", "Smart Watch Applications", and "Authentication Invulnerable to Shoulder Surfing".

2014 – 2018   Open Days Speaker and Lab Demonstrations for the Discipline of Computing, University of Dundee.

2018   Judging for Angus Games Con 2018 at Computing, University of Dundee. Teams from 3 primary schools were invited to create a game/animation on the topic of staying safe online and the teams took part in an accessibility coding challenge on the day. May 2018

2017   I helped demo Virtual Virtuoso to an industry audience attending the Scottish Informatics and Computer Science Alliance's DemoFest. Virtual Virtuoso is a VR sandbox for musical exploration using musical metaphors with an immersive experience for novice music creators. Developed by University of Dundee undergraduate student Lewis Davie. Dynamic Earth, Edinburgh, October 3, 2017.

2017   Supporting High School students during a Scratch evening class, University of Dundee. March 2017.

2016   Dundee Science Festival evening technology demonstrations for the public. November 2016.

Teaching

Rochester Institute of Technology
Instructor, School of Information
2023   ISTE-266 *Design For Accessibility*, undergraduate course delivered in-person. Spring 2023.
2022   HCIN-620 *Information and Interaction Design*, graduate course delivered in-person. Fall 2022.
2022   HCIN-630 *Usability Testing*, graduate course delivered in-person. Spring 2022.
2021   HCIN-600 *Research Methods*, graduate course delivered in-person. Fall 2021.
2021   HCIN-700 *Current Topics in HCI*, graduate course delivered online. Spring 2021.
2020   HCIN-610 *Foundations of Human-Computer Interaction*, graduate course delivered in a hybrid format (online/in-person). Fall 2020.
2020   HCIN-700 *Current Topics in HCI*, graduate course delivered online. Spring 2020.
2019   HCIN-610 *Foundations of Human-Computer Interaction*, graduate course delivered in-person. Fall 2019.

Guest Instructor, School of Information
2022   ISTE-99 BS School of Information Second Year Seminar, undergraduate-level course delivered in-person. Presentation on how to work with faculty on research projects. Fall 2022.
2022   HCIN-600 Research Methods, graduate-level course delivered in-person. Presentation on running surveys. Fall 2022.

2022   HCIN-794 MS Human-Computer Interaction Capstone Proposal, graduate-level course delivered in-person. Presentation on my research and optional student projects. Fall 2022.

2021   HCIN-794 MS Human-Computer Interaction Capstone Proposal, graduate-level course delivered in-person. Presentation on my research and optional student projects. Fall 2021.

2020   ISTE-99 BS School of Information Second Year Seminar, undergraduate-level course delivered online. Presentation on how to work with faculty on research projects. Fall 2020.

2019   HCIN-794 MS Human-Computer Interaction Capstone Proposal, graduate-level course delivered in-person. Presentation on my research and optional student projects. Fall 2019.

2019   HCIN-600 Research Methods, graduate-level course delivered in-person. Presentation on running surveys. Fall 2019.

University of Dundee
Various Roles, Discipline of Computing

2015-19   HCI, Programming, Research, UX, and Web courses. Mix of graduate/undergraduate students and in-person/online format.

Research Advising

PhD Student Advisees

2. **Sarah Andrew**, Computing & Information Sciences, RIT. August 2021 to present.

1. **Laleh Nourian**, Computing & Information Sciences, RIT. January 2021 to present.

Dissertation Committee

5. **John Dunham**, Computing & Information Sciences, RIT. On committee from October 2022 to present.

4. **Saad Hassan**, Computing & Information Sciences, RIT. On committee from October 2022 to present. Proposal defended November 2022

3. **Matthew Seita**, Computing & Information Sciences, RIT. On committee from October 2021 to present. Proposal defended April 2022.

2. **Oliver Alonzo**, Computing & Information Sciences, RIT. On committee from August 2021 to present. Proposal defended December 2021.

1. **Sovantharith Seng**, Computing & Information Sciences, RIT. On committee from November 2019 to present.

Research Potential Assessment (Qualifier) Committee Member

6. **Ziming Li**, Computing & Information Sciences, RIT. Defended May 2022.

5. **Caluã de Lacerda Pataca**, Computing & Information Sciences, RIT. Defended May 2022.

4. **Murtaza Tamjeed**, Computing & Information Sciences, RIT. Defended May 2021.

3. **Xiaofu Jin**, Computing & Information Sciences, RIT. Defended May 2021.

2. **Abraham Glasser**, Computing & Information Sciences, RIT. Defended May 2020.

1. **Saad Hassan**, Computing & Information Sciences, RIT. Defended May 2020.

M.S. Student Advisees (Capstones/Theses)

21. **Shwetha Subramanian**, Human-Computer Interaction M.S. student, RIT. Capstone: "*How to ensure users smoothly transition out of virtual environments when using a VR headset*". Proposal signed. December 2022 – Present.

20. **Sucheer Rao**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Understanding the Accessibility Practices of Social Media Managers at Universities for Blind and Low Vision Users*". Proposal signed. December 2022 – Present.

19. **Juliann Thang**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Designing Effective Digital Wellbeing Methodologies*". Proposal signed. October 2022 – Present.

18. **Anna Jacobsen**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Experiences of the Blind Community with Smart Retail Technology*". Proposal signed. November 2021 to Present.

17. **Sagarika Verma,** Human-Computer Interaction M.S. student, RIT. Capstone: "*Donation Hero: a mobile application for identifying and notifying donors of fraudulent crowdfunding websites for a worry-free donation in India*". 2022. Defended: December 2022.

16. **Ajay Chaudhary**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Understanding Buying Intentions and Privacy Concerns of Users While Using AR Makeup Mirror In Their Own Homes*". 2021 to 2022. Defended: December 2022.

15. **Jiaxuan Sun**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Accessibility for Blind People Interaction with Household Surfaces*". 2021 to 2022. Defended: December 2022.

14. **Emily Lederman**, Human-Computer Interaction M.S. student, RIT. Capstone: "*The Usability of TikTok Captions*". 2021 to 2022. Defended: June 2022.

13. **Ian Mackenzie**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Redesigning an Outdated Training System for ITS at RIT*". 2021 to 2022. Defended: April 2022.

12. **Nisanth Rajavelu**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Don't let the dogs out: Online dog adoption using persuasive design technology in India*". 2021 to 2022. Defended: April 2022.

11. **Urvashi Kokate**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Evaluating the Accessibility Check Features in Popular Prototyping tools*". 2020 to 2021. Defended: December 2021.

10. **Esha Shandilya**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Role of Non-textual Communication in Developing Interpersonal Bonds in Virtual Workspaces*". 2020 to 2021. Defended: July 2021.

9. **Ma' kiah Holliday**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Providing College Students Safe Access to On-Campus Food Pantry Post COVID-19*". 2020 to 2021. Defended: May 2021.

8. **Ralph Thelusma**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Factors contributing to poor alphanumeric password authentication practices among military members on overseas assignments stationed in Vilseck, Germany*". 2020 to 2021. Defended: May 2021.

7. **Sarah Andrew**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Designing for Mobile Authentication Situational Impairments caused by COVID-19 Preventions*". 2020 to 2021. Defended: April 2021.

6. **Athira Pillai**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Withstanding an Increasingly Inaccessible Web: Incorporating Accessibility into Website Builders*". 2020 to 2021. Defended: April 2021.

5. **Xinyue Zhang**, Human-Computer Interaction M.S. student, RIT. Capstone: "*An Educational System for Exploring and Understanding Situational Visual Impairments*". 2019 to 2020. Defended: August 2020.

4. **Alexandra Hannaway**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Developing Context Driven Messaging Aids with User-Centered Design to Improve Online Dating Conversations*". 2020 to 2020. Defended: July 2020.

3. **Hui-yu Ho**, Human-Computer Interaction M.S. student, RIT. Capstone: "*ACE 2.0: Digital Design Tool to Help Designers Increase Visual Accessibility*". 2019 to 2020. Defended: July 2020.

2. **Liam Kiniry**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Alt-Text Supplemented by Social Media Crowdsourcing: Closing Gaps in Social and Contextual Understanding of Memes*". 2019 to 2020. Defended: April 2020.

1. **Trinh Le**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Desired Features and Capabilities of Assistive Mobile Technology for Self-Regulating Anxiety*". 2019 to 2020. Defended: April 2020.

M.S. Student Committee Member (Capstones/Theses)

12. **Kripa Kundaliya**, Human-Computer Interaction M.S. student, RIT. Capstone: "Accessible Design Methods - Ideation and Sketching with Blind, Low Vision and Sighted Participants". Proposal signed. December 2022 – Present.

11. **Cong Wang**, Human-Computer Interaction M.S. student, RIT. Capstone: "Virtual Try-on User Experience for Glasses". Proposal signed. November 2022 – Present.

10. **Palavi Vinod Bhole**, Human-Computer Interaction M.S. student, RIT. Thesis: "Exploring Authentication Methods for Blind and Low Vision Users using Haptic Feedback in Wearable Devices". Proposal signed. August 2022 – Present.

9. **Roshan Mathew**, Human-Computer Interaction M.S. student, RIT. Capstone: "*DHH Perspectives on AR/MR-based Interfaces for Improving Accessibility of Voice-based Interactions*". Proposal signed. November 2021—Present.

8. **Chloe Keilers**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Study on current data visualization accessibility for blind audience*". 2021 to 2022. Defended: June 2022.

7. **Roshni Wadhwa**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Recommending Guidelines for a Holistic Solution to Simplify the Process of Onboarding Incoming Students*". 2021. Defended: December 2021.

6. **Madhura Valvaikar**, Human-Computer Interaction M.S. student, RIT. Capstone: "*An automated system for managing Grab-and-Go meals at a college cafeteria*". 2021. Defended: December 2021.

5. **Dymen Barkins**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Accessible Design: Exploring the Ideation and Sketching Process with Blind/Low-Vision Individuals*". 2021. Defended: December 2021.

4. **Manisha Varma Kamarushi**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Haptic Authentication: One-touch Authentication for Blind/low vision users to mitigate Shoulder-Surfing Attacks*". 2020 to 2021. Defended: September 2021.

3. **Becca Dingman**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Creating Accessible Podcasts: A platform for transcribing podcasts*". 2020 to 2021. Defended: May 2021.

2. **Wenhao Luebs**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Making Sketching Activity Accessible to Blind and Low-Vision People in User Experience Design*". 2019 to 2020. Defended: November 2020.

1. **Junchen Li**, Human-Computer Interaction M.S. student, RIT. Capstone: "*Using Prototyping Tools via Screen Reader Software: Usability and Accessibility Issues*". 2019 to 2020. Defended: April 2020.

Independent Study Advisee

3. **Laleh Nourian**, PhD student in Computing & Information Sciences, RIT. Project: "*Understanding Accessibility Education in Iranian Courses*". August 2022 – December 2022.

2. **Anna Jacobsen,** Human-Computer Interaction M.S. student, RIT. Project: "*Understanding the experiences of blind people using smart retail technology*". January 2022 – April 2022.

1. **Bryan Basham,** M.S. student in School of Individualized Study, RIT. Project: "*Improving the Student User Experience of an Experimental Learning Management System*". May 2020 – December 2020.

Research Assistantship Advisee

5. **Vinaya Naikar**, Human-Computer Interaction M.S. student, RIT. Supporting ongoing lab projects. September 2022 – Present.

4. **Renee Bogdany**, Human-Centered Computing B.S. student, RIT. Supporting ongoing lab projects. January 2022 – April 2022.

3. **Shwetha Subramanian**, Human-Computer Interaction M.S. student, RIT. Student lead for project funded by GCCIS seed funding. October 2021 – July 2022.

2. **Chelsea Bishop**, Human-Centered Computing B.S. student, RIT. Supporting ongoing lab projects. August 2021 – April 2022.

1. **Shantanu Jamble**, Game Design and Development M.S. student, RIT. Building a mobile game to support data collection. March 2020 – April 2020.

Graduate Assistantship Advisee

3. **Shwetha Subramanian**, Human-Computer Interaction M.S. student, RIT. Project: "Improving AR and VR experiences". August 2022 – Present.

2. **Nash Lyke**, Human-Computer Interaction M.S. student, RIT. Project: "*Accessibility of Government Disability Assistance (AGDA)".* August 2021 – May 2022.

1. **Sarah Andrew**, Human-Computer Interaction M.S. student, RIT. Project: "*Inclusive Privacy and Security*". August 2020 – May 2021.

Advising roles undertaken during my PhD studies at the University of Dundee

From 2014-2018 I co-advised two final year undergraduate students, one graduate student, and three high school students on a Nuffield Research Placement. Two publications resulted from this [J.1, P.1].

Service to Department/School/College/University

August 2019 – present, RIT (total: 12; current: 7)

2023 – present **Committee Member**, GCCIS Outstanding Educator Award. Golisano College of Computing and Information Sciences, RIT. College-level. March – present.

2022 – present **Course lead**, HCIN-620 Information and Interaction Design, School of Information, Golisano College of Computing and Information Sciences, RIT. School-level. September 2022 – present.

2022 – present **Course lead**, HCIN-700 Current Topics in HCI, School of Information, Golisano College of Computing and Information Sciences, RIT. School-level. May 2022 – present.

2020 – present **Course lead**, HCIN-610 Foundations of HCI, School of Information, Golisano College of Computing and Information Sciences, RIT. School-level. May 2020 – present.

2019 – present **Chair**, Increasing Undergraduate Students' Engagement in Research. School of Information, GCCIS, RIT. School-level. October 2019 – present.

2019 – present **Faculty Member**, Computing and Information Sciences Ph.D. Department, GCCIS, RIT. College-level. October 2019 – present.

2019 – present **Core faculty Member**, HCI/HCC faculty meetings to keep HCI-MS and HCC-BS program updated/relevant. School of Information, GCCIS, RIT. School-level. October 2019 – present.

2022 – 2023 **Committee Member**, iSchool Tenure-Track HCI Faculty Search. School of Information, GCCIS, RIT. School-level. September 2022 – February 2023.

2021 – 2022 **Committee Member**, iSchool Tenure-Track HCI Faculty Search. School of Information, GCCIS, RIT. School-level. August 2021 – April 2022.

2021 **Committee Member**, Ad Hoc Committee to identify UX Resources for the usability lab, School of Information, Golisano College of Computing and Information Sciences, RIT. School-level. Fall 2021.

2020 – 2022 **Committee Member**, 20th Anniversary Celebration Committee. Golisano College of Computing and Information Sciences, RIT. College-level. March 2020 – March 2022.

2020 – 2022 **Committee Member**, Digital Capstone Committee. School of Information, Golisano College of Computing and Information Sciences, RIT. School-level. March 2020 – May 2022.

March 2012 – May 2019, University of Dundee (total: 4)

2019 **Judge**, Annual Computing PhD Symposium, Discipline of Computing, School of Science and Engineering, University of Dundee. Department-level. May 2019.
- *I was invited to be an academic judge for the University of Dundee's Computing PhD Symposium. The panel was tasked with selecting the best presentations by a non-transfer student (PhD Student) and a transfer student (PhD Candidate).*

2016 – 2019 **Committee member**, Computing Ethics Committee, Discipline of Computing, School of Science and Engineering, University of Dundee. Department-level. October 2016 – February 2019.
- *I reviewed human subjects research proposals to ensure they were ethically appropriate with controlled risks, and then inform the chair of my decision on whether the research can take place or if amendments were required. I also mentored new members of the committee.*

2012 **Volunteer**, Alternative Formats, Library, University of Dundee. University-level. March 2012 – May 2012.
- *I volunteered with the Alternative Formats service to convert resources (e.g., books) into a different medium for students who had physical and/or visual impairments.*

2011 – 2012 **Mentor**, fourth year psychology undergraduate mentor, School of Psychology, University of Dundee. School-level. September 2011- July 2012.
- *The psychology mentor system was set up to encourage interaction between the different years in the School of Psychology. In 4th year, I was a mentor to psychology undergraduate students in earlier years to provide academic and personal advice and support.*

Current Academic and Professional Memberships

2020 – present **Member at large and Support Access Chair Liaison**, AccessSIGCHI.
2016 – present **Member**, Association of Computing Machinery.

Professional Development

2022   Faculty and Staff Sign Language ASL 1A TWA. Instructor: Danielle Graybill, NTID.
2021   Inclusive Hiring Training. Instructor: Dr. Taj Smith, Director of Diversity Education.
2020   Faculty and Staff Sign Language ASL 1B TWA. Instructor: Heather Miller, NTID.
2019   Faculty and Staff Sign Language ASL 1A TWA. Instructor: Heather Miller, NTID.