

JooYoung Seo

Ph.D.

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I am a learning scientist, data-science/software engineer, and internationally certified accessibility professional.

Education

The Pennsylvania State University

University Park, PA

Ph.D. in Learning, Design, and Technology

2021

- Dissertation Title: "Discovering Informal Learning Cultures of Blind Individuals Pursuing STEM Disciplines: A Computational Ethnography Using Public Listserv Archives."
- Committee members: Drs. Gabriela T. Richard (adviser; dissertation chair), Roy B. Clariana, ChanMin Kim, and Mary Beth Rosson.

The Pennsylvania State University

University Park, PA

M.Ed. in Learning, Design, and Technology

2016

Sungkyunkwan University

Seoul, South Korea

Double B.A. in Education, English Literature

2014

Academic Appointment

School of Information Sciences

University of Illinois at

Urbana-Champaign

Assistant Professor

Sep. 2021

Illinois Informatics Institute

University of Illinois at

Urbana-Champaign

Faculty Affiliate

Sep. 2021

Certificates

RStudio PBC

Double-Certified Data Science Instructor for Tidyverse and Shiny

Jun. 2020 - Present

NV Access

Certified Expert with NVDA (Non-Visual Desktop Access) Screen Reader

Dec. 2019 - Present

International Association of Accessibility Professional

Certified Professional in Accessibility Core Competencies

Apr. 2017 - Present

Korean Ministry of Education

Licensed English Teacher (Secondary Education)

Feb. 2014 - Present

Korean Ministry of Education

Licensed General Education Teacher (Secondary Education)

Feb. 2014 - Present

Publications

Refereed Journal Papers

Choi, S., & Seo, J. (2021). Trends in healthcare research on visual impairment and blindness: Use of bibliometrics and hierarchical cluster analysis. *Ophthalmic Epidemiology*, 28(4), 277–284. <https://doi.org/10.1080/09286586.2020.1863993>. PMID: 33380253.

Seo, J., & Richard, G. T. (2021). SCAFFOLDing all abilities into makerspaces: A design framework for universal, accessible, and intersectionally inclusive making and learning. *Information and Learning Sciences*. <https://doi.org/10.1108/ILS-10-2020-0230>

Seo, J. (2019). Is the maker movement inclusive of ANYONE?: Three accessibility considerations to invite blind makers to the making world. *TechTrends*, 63(5), 514–520. <https://doi.org/10.1007/s11528-019-00377-3>

Seo, J., & McCurry, S. (2019). LaTeX is NOT easy: Creating accessible scientific documents with r markdown. *Journal on Technology and Persons with Disabilities*, 7, 157–171.

Seo, J., & Choi, S. (accepted). Are blind people considered a part of scientific knowledge producers?: Accessibility report on top-10 SCIE journal systems using a tripartite evaluation approach. *Journal on Technology and Persons with Disabilities*.

Seo, J., Moon, J., Choi, G. W., & Do, J. (accepted). A scoping review of three computational approaches to ethnographic research in digital learning environments. *TechTrends*.

Working Papers under Revision or Review

Lee, C. Y. P., Zhang, Z., Herskovitz, J., Seo, J., & Guo, A. (in revision). CollabAlly: Accessible collaboration awareness in document editing. CHI 2022.

Papers in Refereed Conference Proceedings

Lee, C. Y. P., Zhang, Z., Herskovitz, J., Seo, J., & Guo, A. (2021). CollabAlly: Accessible collaboration awareness in document editing. The 23rd international ACM SIGACCESS conference on computers and accessibility, 1–4. <https://doi.org/10.1145/3441852.3476562>

Seo, J., & Richard, G. T. (2020). Coding through touch: Exploring and re-designing tactile making activities with learners with visual dis/abilities. In M. Gresalfi & I. Horn (Eds.), *Interdisciplinarity in the learning sciences*, 14th international conference of the learning sciences (ICLS) 2020 (Vol. 3, pp. 1373–1380). Nashville, TN: International Society of the Learning Sciences (ISLS).

Seo, J. (2019). Discovering informal learning cultures of blind individuals pursuing STEM disciplines: A quantitative ethnography using listserv archives. The first international conference on quantitative ethnography: Doctoral consortium, S66–S67. Madison, WI. Awarded the best Doctoral Consortium Proposal Cengage fellowship.

Seo, J. (2018). Accessibility and inclusivity in making: Engaging learners with all abilities in making activities. In *Proceedings of the 3rd learning sciences graduate student conference* (pp. 141–142). Nashville, TN: LSGSC Planning Team.

Seo, J., & Richard, G. T. (2018). Accessibility, making and tactile robotics: Facilitating collaborative learning and computational thinking for learners with visual impairments. In J. Kay & R. Luckin (Eds.), *Rethinking learning in the digital age: Making the learning sciences count*, 13th international conference of the learning sciences (ICLS) 2018 (Vol. 3, pp. 1755–1757). London, UK: International Society of the Learning Sciences (ISLS).

Konecki, M., Lovrenčić, S., Seo, J., & LaPierre, C. (2017). The role of ICT in aiding visually impaired students and professionals. *Proceedings of the 11th Multidisciplinary Academic Conference*, 148.

Seo, J., AlQahtani, M., Ouyang, X., & Borge, M. (2017). Embracing learners with visual impairments in CSCL. In B. K. Smith, M. Borge, E. Mercier, & K. Y. Lim (Eds.), *Making a difference: Prioritizing equity and access in CSCL*, 12th international conference on computer supported collaborative learning (CSCL) 2017 (Vol. 2, pp. 573–576). Philadelphia, PA: International Society of the Learning Sciences (ISLS).

Publications in Healthcare

Choi, S., & Seo, J. (2020). An exploratory study of the research on caregiver depression: Using bibliometrics and LDA topic modeling. *Issues in Mental Health Nursing*, 1–10. <https://doi.org/10.1080/01612840.2019.1705944>

Choi, S., & Seo, J. (2019). Analysis of caregiver burden in palliative care: An integrated review. *Nursing Forum*, 54(2), 280–290. <https://doi.org/10.1111/nuf.12328>

Choi, S., & Seo, J. (2019). Heart failure research using text mining: A systematic review. *NURSING RESEARCH*, 68(2), E119–E120.

Choi, S., & Seo, J. (2019). Trends in self-management among adults with heart failure from 2011 to 2016 using the national health and nutrition examination surveys. *Journal of Cardiac Failure*, 25(8), S4. <https://doi.org/10.1016/j.cardfail.2019.07.540>

Choi, S., Seo, J., & Kitko, L. (2019). Exploring the lived experience of a family member with advanced heart failure: Using a text mining approach. The first international conference on quantitative ethnography: Poster session, S8–S9. Madison, WI.

Choi, S., & Seo, J. (2018). Effects of nonpharmacological interventions for fatigue in patients with heart failure: A systematic review and meta-analysis. *Journal of Cardiac Failure*, 24(8), S73–S74.

Presentations

Peer-Reviewed Conference Presentations

Seo, J. (2021, October). Non-Visual Strategies for Making Statistical-Computing Accessible. Lightning talk at the National Center for Supercomputing Applications, Champaign, IL.

Seo, J. (2021, September). Accessibility of Science Beyond Content Accessibility. Talk presented at the Argonne National Laboratory (Maths and Computer Science Division): <https://www.anl.gov/event/accessibility-of-science-1>

Invited panel (2021, August). DO-IT Neuroscience for Neurodiverse Learners Faculty panel at the University of Washington, virtual.

Seo, J. (2021, June). How to Learn to Code. Invited Talk presented at the Nature, Webcast: <https://doi.org/10.1038/d41586-021-01638-z>.

Seo, J., & Richard, G. T. (2021, February). Uncovering latent topics of blind people in computer science: structural topic modeling for an email corpus. Poster presented at the 2nd International Conference on Quantitative Ethnography (ICQE), Malibu, CA.

Donegan, S. R., Porter, C., Fogel, A., Seo, J., Choi, S., & Eagan, B. (2021, February). U.S. media coverage during COVID-19: an epistemic network analysis of bias, topic, and trajectory. Poster presented at the 2nd International Conference on Quantitative Ethnography (ICQE), Malibu, CA.

Seo, J. (2021, January). Accessible data science beyond visual models. Talk presented at the rstudio::global(2021), Virtual: <https://global.rstudio.com/student/page/40617>.

Seo, J. (2020, September). Discovering knowledge sharing patterns of blind people pursuing STEM disciplines: data science and computational linguistics on large-scale email corpora. Poster presented at the Doctoral Consortium of the annual meeting of the ACM Richard Tapia Celebration of Diversity in Computing, virtual. Awarded the Qualcomm scholarship.

Seo, J., & Richard, G. T. (2020, April). Maker inclusivity = maker accessibility: further interrogations for diverse participation. Poster presented at the annual meeting of the American Educational Research Association (AERA), Virtual.

Seo, J., & Richard, G. T. (2018, April). Furthering inclusivity in making: a framework for accessible design of makerspaces for learners with disabilities. Poster presented at the annual meeting of the American Educational Research Association (AERA), New York City, NY.

Bunag, T., Aniela, L., Nielsen, M. C., & Seo, J. (2017, November). The rapidly changing world of accessible online learning. Presented at the Panel Discussion: DDL - Accessible Online Learning In Concurrent Presentation of the Association for Educational Communications and Technology (AECT), Jacksonville, FL.

Seo, J. (2017, September). Tactile access to visualized statistical data using R. Poster presented at the annual meeting of the ACM Richard Tapia Celebration of Diversity in Computing, Atlanta, GA.

Liao, J., Patcyk, M., Seo, J., & Hooper, S. (2016, October). Using hierarchical linear modeling to measure growth rate in a gamified CBM environment. Paper presented at the annual meeting of the Northeastern Educational Research Association (NERA), Trumbull, CT.

Seo, J. (2016, March). Engaging blind learners in statistics study using R. Presented at the annual meeting of the Teaching and Learning with Technology (TLT) Symposium, University Park, PA.

Kim, K., Seo, J., & Clariana, R. B. (2016, March). Automatic knowledge structure measure in online courses. Presented at the annual meeting of the Teaching and Learning with Technology (TLT) Symposium, University Park, PA.

Seo, J. (2015, November). Assistive technologies for equal access in general education. Presented at the annual meeting of the Association for Educational Communications and Technology (AECT), Indianapolis, IN.

Seo, J., & Park, E. (2015, October). The more accessible, the more potential: simple tips for online accessibility. Presented at the Technology and Learning Conference, Blue Bell, PA.

Invited Guest Lectures

EIT Accessibility Group, The Pennsylvania State University

University Park, PA

Blockers for Users on a Screen Reader

Oct. 2019

- Invited guest talk to a webinar to train Penn State instructional designers for key WCAG 2.1 guidelines to make content more accessible including: image alt text, clear link text and heading structure, proper table structure, form and button labels, the need for keyboard functionality and how to convey information regardless of visual formatting.

Chonnam National University

Gwangju, South Korea

A Small Step to Take Your Data Analysis to Another Level

Jul. 2019

- Invited guest talk to CNU to teach nursing faculty and students for basic concept of machine learning, computer-assisted text mining, and topic modelling to improve their qualitative data reliability.

Sungkyunkwan University

Seoul, South Korea

Being a Reasonable Realist: Wise Negotiation between Give and Take

Jun. 2019

- Invited guest talk to SKKU "Student Success Center" as one of the successful role models to inspire undergraduate students for future planning.

The MathML Meeting, The Pennsylvania State University

University Park, PA

Accessibility of Math, Statistics, and Social Sciences

May. 2019

- Invited guest talk to Penn State MathML group to present assistive technology and accessibility for STEM content.

BBVS Summer Academy STEM Extension

University Park, PA

Key-Note Speech for STEM Extension

Jul. 2018

- Invited key-note speaker to the STEM (Science, Technology, Engineering, and Mathematics) week of "The Summer Academy for Students who are Blind or Visually Impaired."
- Hosted by the Pennsylvania Department of Labor and Industry, Office of Vocational Rehabilitation's Bureau of Blindness and Visual Services, in partnership with the Pennsylvania Department of Education, Bureau Of Special Education's Pennsylvania Training and Technical Assistance Network and Pennsylvania State University's College of Education and College of Health and Human Development.

LDT 100 - "World Technologies and Learning", The Pennsylvania State University

University Park, PA

Adaptive Technology Lesson

Apr. 2018

- Two times invited guest talk to Dr. Joshua Kirby's class for the week of "The Cost of 21st Century Education."

LDT First Friday Speaking Series, The Pennsylvania State University

University Park, PA

Universal Design 101: Three Fundamental Frameworks for an Equitable World

Apr. 2017

- Invited guest talk to the Learning, Design, and Technology (LDT) program of Penn State to introduce theoretical and practical background of Universal Design for Learning.

Northwestern University

Evanston, IL

Inclusive Making

Oct. 2017

- Invited guest talk to Dr. Marcelo Worsley's "Inclusive Making" class for Learning Sciences Program.

The Accessibility Users Group, The Pennsylvania State University

University Park, PA

Accessibility Testing Using NVDA

Jul. 2017

- Invited guest talk to the Penn State online learning Accessibility User Group to train web accessibility testing with open-source screen reader NVDA.

Canvas Day 17

University Park, PA

Non-Visual Access to Canvas with Assistive Technology

Mar. 2017

- Invited guest to a showcase of Canvas, a learning management tool, to demonstrate how to interact with the online system using assistive technology for students with disabilities.

Ed-ICT International Network: Disabled students, ICT, post-compulsory education & employment

Seattle, WA

Student Panel Discussion: Student Issues

Mar. 2017

- Invited student panel to the first Ed-ICT International Network symposium.

Korea Employment Promotion Agency for the Disabled

Gyeonggi, South Korea

Accessibility: The First Step towards Ability

Jul. 2016

- Invited guest talk to KEAD to train the employees in concept of accessibility and universal design.

Work Experience

- Worked on accessibility improvement projects for Rstudio Server and Desktop IDE, Shiny and Rmarkdown.
- Patched Shiny's bootstrap dependencies to improve navigation of Shiny apps for screen-reader and keyboard users (alert, tooltip, popover, modal dialog, dropdown, tab Panel, collapse, and carousel elements). (Shiny PR #2911)
- Made selectInput widget accessible by patching selectize-a11y-plugin JS library. (Shiny PR #2993)
- Developed a way to pass dynamic alt attribute for reactive plot objects in Shiny UI. (Shiny PR #3006)
- Made fontawesome and glyphicon readable to assistive technologies in Shiny UI. (Shiny PR #2917)
- Developed JS code to resolve accessibility issue in highlighted code blocks of HTML output produced by Pandoc for screen reader users. (Rmarkdown PR #1833)
- Authored technical documents on how to run RStudio Server via Windows Subsystem for Linux and RStudio Screen Reader Support.

ICE Soft

Seoul, South Korea

Co-Founder and Project Manager

Jul. 2010 - Jun. 2011

- Co-founded and managed a start-up company to develop Android-based navigation App and assistive technology for blind people.
- Applied for and received a \$30,000 fund from the city of Seoul.

Software Developments and Publications

Data Science Packages in Comprehensive R Archive Network (CRAN)

Seo, J., & Choi, S. (2020). Youtubecaption: Downloading YouTube subtitle transcription in a tidy tibble data frame. Retrieved from <https://CRAN.R-project.org/package=youtubecaption>. Over 9543 download.

Seo, J., & Choi, S. (2019). Ezpickr: Easy data import using GUI file picker and seamless communication between an excel and r. Retrieved from <https://CRAN.R-project.org/package=ezpickr>. Over 19K download.

Seo, J., & Choi, S. (2019). Mboxr: Reading, extracting, and converting an mbox file into a tibble. Retrieved from <https://CRAN.R-project.org/package=mboxr>. Over 15K download.

Open-Source Project on GitHub

Seo, J. (2020). Edmdown: Writing a reproducible article for journal of educational DataMining in r markdown. Retrieved from <https://github.com/jooyoungseo/edmdown>. R package version 0.0.0.9000.

Seo, J., Chan, T., Michaelis, J. E., & Rosenberg, J. M. (2020). Islsdown: Writing a reproducible conference paper for the international society of the learning sciences annual meeting in r markdown. Retrieved from <https://github.com/jooyoungseo/islsdown>. R package version 0.0.0.9000.

Seo, J., & Rosenberg, J. M. (2020). Jldown: Writing a reproducible article for journal of learning analytics in r markdown. Retrieved from <https://github.com/jooyoungseo/jldown>. R package version 0.0.0.9000.

Seo, J. (2019). Ezviewr: View tidy data in preferable spreadsheet. Retrieved from <https://github.com/jooyoungseo/ezviewr>. R package version 0.1.0.

Seo, J. (2019). tactileR: Converting r graphics into a braille ready-to-print PDF. Retrieved from <https://github.com/jooyoungseo/tactileR>. R package version 0.1.0.

Seo, J., & McCurry, S. (2019). AROW: Accessible RMarkdown online writer. Retrieved from <http://www.arowtool.com>

Officially Code_Contributing R Packages

- My GitHub pull requests have been peer-reviewed and merged for active data science R packages:

Chang, W., Cheng, J., Allaire, J., Xie, Y., & McPherson, J.

shiny: Web Application Framework for R

- Contributed to improving keyboard and TTS accessibility for input widgets.

<https://cran.r-project.org/web/packages/shiny/>
2020

O'Hara-Wild, M., & Hyndman, R.

vitae: Curriculum Vitae for R Markdown

- Contributed to enabling LaTeX engine customization.
- Contributed to displaying multiple bibliographies based on lua filter.

<https://cran.r-project.org/web/packages/vitae/>
2020

Allaire, J., Xie, Y., et al.

rmarkdown: Dynamic Documents for R

- Contributed to improving ioslides_presentation accessibility for screen reading software.

<https://cran.r-project.org/web/packages/rmarkdown/>
2019

Xie, Y.

bookdown: Authoring Books and Technical Documents with R Markdown

- Developed context_document2, github_document2, beamer_presentation2, html_fragment2, html_notebook2, html_vignette2, ioslides_presentation2, slidy_presentation2 and rtf_document2 functions to enable R markdown users to utilize cross-references for figures and tables through bookdown package.

<https://cran.r-project.org/web/packages/bookdown/>
2019

Allaire, J., Iannone, R., & Xie, Y.

distill: 'R Markdown' Format for Scientific and Technical Writing

- Contributed to displaying more metadata for journal article bib_entries.
- Improved screen reader accessibility for navigation bar.
- Added missing Google Scholar meta tags for conference, technical report, and dissertation types.

<https://cran.r-project.org/web/packages/distill/>
2019

Marwick, B.

wordcountaddin: Word counts and readability statistics in R markdown documents

- Contributed to text_stats() function for R markdown users to Get a word count and some other stats for selected text (excluding code chunks and inline code).

<https://git.io/JkJca>
2019

Godfrey, A. J. R., Warren, D., Murrell, P., Bilton, T., & Sorge, V.

BrailleR: Improved Access for Blind Users

- Contributed to BRLThis() function to enable blind R users to convert a graph into a pdf ready for embossing in Braille.

<https://cran.r-project.org/web/packages/BrailleR/>
2019

Research Experience

Learning Math with Jupyter Notebooks

University Park, PA

Project Manager

Sep. 2020 - Jul. 2021

- Assisting Dr. Jan Reimann (Associate Professor of Mathematics) in developing accessible Jupyter Notebook systems for Math 110 (Techniques of Calculus).

Online Interactions of the Blind Research Project

University Park, PA

Principal Investigator

May. 2019 - Jul. 2021

- Conducting quantitative ethnography research on how blind learners pursue STEM disciplines as captured through a large-scale mailing list-servs.
- Using data science, computational linguistics (i.e., unsupervised machine learning for text mining; natural language processing) approaches coupled with conventional ethnographic methods.

Accessible RMarkdown Online Writer (AROW) Project, Teaching and Learning with Technology (TLT)

University Park, PA

Project Manager

May. 2018 - Jul. 2021

- Developed an accessible web application for people with dis/abilities to easily compose a high-quality scientific document based on LAMP, AJAX, R Markdown, and MathML.

Accessibility of Maker Toolkits Research Project

University Park, PA

Principal Investigator

Jun. 2017 - Jul. 2021

- Conducting usability and design research on how to make current electronics and maker toolkits more accessible for learners with visual impairments.

Playful Learning and Inclusive Design Research Group

University Park, PA

Graduate Researcher

Aug. 2016 - Jul. 2021

- Conducting interaction analysis and microethnographic studies for Dr. Gabriela Richard's inclusive gaming for learning and accessible makerspaces for youth with diverse background.

IT Accessibility Team, Teaching and Learning with Technology (TLT)

University Park, PA

Graduate Assistant

Aug. 2016 - Jul. 2021

- Developing and consulting accessible HTML5/CSS3/JS webpages for Penn State University sites and learning management tools.
- Evaluating suitability of digital badges according to web content accessibility guidelines (WCAG) 2.0.

Avenue PM Research Group

University Park, PA

Graduate Researcher

Sep. 2014 - May. 2016

- Participated in Dr. Simon Hooper's grant project sponsored by the U.S. Department of Education Stepping Stones Phase II program.
- Improved web accessibility for deaf-blind learners by removing blockers on website platform.

Grants

Institute of Museum and Library Services

United States

National Leadership Grants for Libraries

Submitted as a PI

- Promoting Computational Thinking Skills for Blind and Visually Impaired Teens through Accessible Library Makerspaces
- Requested funding amount: \$554,810.

Emerging Scholars Program

International Society of the
Learning Sciences

Wallace Foundation grant

Submitted as a PI

- Data Accessibilization: Making Data Science Education Accessible for Blind Learners
- Requested funding amount: \$10,000.

College of Education, The Pennsylvania State University

University Park, PA

Dissertation Research Initiation Grant

Feb. 2020 - Dec. 2020

- Selected as one of the 10 outstanding dissertation research proposals in 2019-2020 academic year.
- Funding amount: \$600 USD.

ChungInwook Scholarship Foundation

Seoul, South Korea

Doctoral Research

2016 - 2018

- Funding amount: \$30,000 USD.

Center for Online Innovation in Learning, The Pennsylvania State University Innovative Research Funding	University Park, PA Mar. 2016 - Aug. 2017
<ul style="list-style-type: none"> • Providing Touchable Knowledge Structure Graphic Feedback for Blind Online Learners: Tablet-Based Haptic Feedback and Paper-Based Tactile Feedback • Developed a prototype website and mobile app for accessible knowledge structure. • Co-led (Co-PI) a development project funded by Penn State to provide blind online learners with accessible network graphs that measure students' knowledge structure. • Funding amount: \$33,060 USD. 	
National Institute for International Education, Korean Government Future Interdisciplinary Study	Seoul, South Korea 2014 - 2016
<ul style="list-style-type: none"> • Fully sponsored by Korean Government for the Master's research. • Funding amount: \$70,000 USD. 	
Seed Funding for Start-Up Company for the Youth, City of Seoul ICE Soft: I See through Assistive Technology	Seoul, South Korea Jul. 2010 - Jun. 2011
<ul style="list-style-type: none"> • Co-Founded and Project-Managed ICE Soft. • Worked with a team and developed an gps app for the blind. • Funding amount: \$30,000 USD. 	

Awards and Honors

ACM Richard Tapia Celebration of Diversity in Computing Conference Qualcomm Scholarship	Virtual Sep. 2020
<ul style="list-style-type: none"> • Selected as one of the outstanding doctoral consortium proposals. 	
Disability:IN 2020 NextGen Leaders	Alexandria, VA Feb. 2020 - Jul. 2020
<ul style="list-style-type: none"> • Selected as one of the leaders in the U.S. for diversity. 	
AccessComputing, University of Washington AccessSTEM Resume contest winners Award	Seattle, WA Dec. 2019
<ul style="list-style-type: none"> • Sponsored by The National Science Foundation (NSF). 	
The First International Conference on Quantitative Ethnography Best Doctoral Proposal Fellowship	Madison, WI Oct. 2019
<ul style="list-style-type: none"> • Sponsored by Cengage. 	
The PDK Educational Foundation Andrew V. Kozak Memorial Fellowship	University Park, PA 2019
<ul style="list-style-type: none"> • Awarded \$1,500 for research contribution to public education. 	
The Spencer Foundation AERA Pre-Conference Travel Award	Toronto, ON, Canada Apr. 2019
The Pennsylvania State University Delta Gamma Golden Anchor Award	University Park, PA 2015, 2017
The National Science Foundation (NSF) ACM Richard Tapia Celebration of Diversity in Computing Conference Scholarship	Atlanta, GA Sep. 2017
<ul style="list-style-type: none"> • Included free conference registration, shared hotel accommodations and a \$500 travel stipend. 	
Microsoft Research ACM Student Research Competition Travel Award	Atlanta, GA Sep. 2017
<ul style="list-style-type: none"> • \$500 travel stipend was awarded for ACM TAPIA 2017 Student Research Competition (SRC). 	
AccessComputing, University of Washington CSUN Conference Travel Award	Seattle, WA Mar. 2017
<ul style="list-style-type: none"> • Sponsored by The National Science Foundation (NSF). 	
College of Education Summer Tuition Assistance Funding	University Park, PA 2017
College of Education Graduate Student Travel Grant	University Park, PA Aug. 2016 - Present
Teaching and Learning with Technology Graduate Assistantship	University Park, PA Aug. 2016 - Present

Hyomyoung Scholarship

Outstanding Academic Award

Seoul, South Korea

2014 - 2019

ANC Scholarship Foundation

All Nations Church Graduate Scholarship

Lake View Terrace, CA

2016

Teaching Experience

School of Information Sciences, University of Illinois at Urbana-Champaign

Champaign, IL

Co-Instructor

Fall 2021

- IS 226: Introduction to Human-Computer Interaction

IT Accessibility Team, Teaching and Learning with Technology (TLT)

University Park, PA

Accessibility Instructor

Mar. 2015 - Aug. 2021

- Teaching over 100 staff members of the Penn State Accessibility team HTML5/CSS3/JavaScript coding and accessibility evaluation practice.

Gunpo High School

Gyeonggi, South Korea

Assistant English Teacher

Mar. 2013 - May. 2013

- Taught English to 10-grade high school students.

Service

School of Information Sciences at the University of Illinois at Urbana-Champaign

Champaign, IL

Diversity Committee

Sep. 2021 - Apr. 2022

15th International Conference on Educational Data Mining

Durham

Accessibility Chair

Oct. 2021 - Jul. 2022

Special issue on ethnography and learning design

TechTrends

Journal Reviewer

Sep. 2021

The Network of Academic Programs in the Learning Sciences (NAPLeS)

International Society of the
Learning Sciences

Reviewer

2020

- Reviewed abstracts on equity and disability.

The Pennsylvania State University

University Park, PA

College of Education Technology Committee

Aug. 2019 - May. 2020

- Worked as a student committee member to support understanding of educational technology for College of Education.

The Pennsylvania State University

University Park, PA

Libraries' Accessibility Student Advisory Group

Aug. 2019 - May. 2020

The 14th International Conference of the Learning Sciences (ICLS)

Nashville, TN

Reviewer

2019

The ACM CHI Conference on Human Factors in Computing Systems (CHI 2020, 2021)

Honolulu, HI, Yokohama, Japan

Reviewer

2019, 2020

The 1st International Conference on Quantitative Ethnography (ICQE)

Madison, WI

Reviewer

2019

The 3rd Learning Sciences Graduate Student Conference (LSGSC)

Nashville, TN

Reviewer

2018

The 2nd Learning Sciences Graduate Student Conference (LSGSC)

Bloomington, IN

Reviewer

2017

Center for Online Innovation in Learning (COIL), The Pennsylvania State University

University Park, PA

Funding Reviewer

2016

Current Memberships

- International Society of the Learning Sciences (ISLS)
- Society for Learning Analytics Research (SoLAR)
- International Society for Quantitative Ethnography (ISQE)

- Association for Computing Machinery (ACM)
- American Educational Research Association (AERA)
- Association for Educational Communications and Technology (AECT)
- International Association of Accessibility Professionals (IAAP)

Notes

- This CV is reproducible; all the source code behind this CV is available on this GitHub repo.

SEO