

JooYoung Seo

PH.D. CANDIDATE (ABD); RSTUDIO TRUSTED DATA SCIENCE INSTRUCTOR

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

Research Topics

- Accessibility
- Universal Design
- Assistive Technology
- Accessible STEM Learning
- Computational Thinking for Learners with dis/ABILITIES
- Inclusive CSCL (Computer-Supported Collaborative Learning)

Primary Research Methods

- Data Science-Based Reproducible Research
- Learning Analytics/Statistical Computing
- Large-Scale-Longitudinal Quantitative/Virtual Ethnography
- Supervised/Unsupervised Machine Learning-Based Text Mining
- Computational Linguistics/NLP

Skills

Braille	UEB (Unified English Braille), Nemeth (Math), Korean, Japanese Brailles
Data Science	R (highly advanced: published 3 packages in CRAN), Python (advanced: tensorflow/keras/scikit-learn), SQL
Reproducible Report	Markdown/Rmarkdown, R shiny apps, Jupyter Notebook, LaTeX, Pandoc, lua
DevOps	Git, Docker, AWS, Travis CI, Cygwin
Front-End	HTML/CSS/JS/PHP/ARIA (advanced level to design according to WCAG 2.0/2.1), WordPress, Drupal, Hugo
Back-End	Unix/Linux Shell scripts, LAMP, Django, REST API
Compile Programming Languages	C/C++/C#, Java, Quorum
Quantitative Research	t-test, within-/between-subjects/Repeated Measures ANOVAs/ANCOVAs/MANOVAs/MANCOVAs, Regressions, HLM, Factor Analysis, Network Analysis, SEM, PCA, Unsupervised/Supervised Machine Learning
Qualitative Research	Virtual Ethnography, Content Analysis, Grounded Theory, Phenomenology, Case Studies, Interaction Analysis
Mixed Research	Text Mining, Quantitative Ethnography, Explanatory/Exploratory Sequential Mixed Methods
Languages	English/Korean (bilingual)

Education

The Pennsylvania State University

University Park, PA

PH.D. IN LEARNING, DESIGN, AND TECHNOLOGY

Aug. 2016 - Present

- Expected graduation: May 2021.
- Dissertation Title: "Discovering Informal Learning Cultures of Blind Individuals Pursuing STEM Disciplines: A Quantitative 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

Aug. 2014 - May. 2016

- GPA 3.97/4.0.

Sungkyunkwan University

Seoul, South Korea

DOUBLE B.A. IN EDUCATION, ENGLISH LITERATURE

Mar. 2009 - Feb. 2014

- GPA 4.08/4.50.

Certificates

Jun. 2020 - Present	Double-Certified Data Science Instructor for Tidyverse and Shiny	RStudio PBC
Dec. 2019 - Present	Certified Expert with NVDA (Non-Visual Desktop Access) Screen Reader	NV Access
Apr. 2017 - Present	Certified Professional in Accessibility Core Competencies	International Association of Accessibility Professionals
Feb. 2014 - Present	Licensed English Teacher (Secondary Education)	Korean Ministry of Education
Feb. 2014 - Present	Licensed General Education Teacher (Secondary Education)	Korean Ministry of Education

Working Experience

Rstudio PBC

Boston, MA

SOFTWARE ENGINEER INTERN

May. 2020 - Aug. 2020

- 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 7780 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 16K 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 12K download.

OPEN-SOURCE PROJECT ON GITHUB

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

Seo, J. (2019). *Jlardown: Writing a reproducible article for journal of learning analytics in r markdown.* Retrieved from <https://github.com/jooyoungseo/jlardown>. R package version 0.0.0.9000.

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>.

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

PROJECT MANAGER

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

University Park, PA
Sep. 2020 - Present

Online Interactions of the Blind Research Project

PRINCIPAL INVESTIGATOR

- 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.

University Park, PA
May. 2019 - Present

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

PROJECT MANAGER

- 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.

University Park, PA
May. 2018 - Present

Accessibility of Maker Toolkits Research Project

PRINCIPAL INVESTIGATOR

University Park, PA

Jun. 2017 - Present

- 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

GRADUATE RESEARCHER

University Park, PA

Aug. 2016 - Present

- 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)

GRADUATE ASSISTANT

University Park, PA

Aug. 2016 - Present

- 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

GRADUATE RESEARCHER

University Park, PA

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.

Teaching Experience

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

ACCESSIBILITY INSTRUCTOR

University Park, PA

Mar. 2015 - Present

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

Gunpo High School

ASSISTANT ENGLISH TEACHER

Gyeonggi, South Korea

Mar. 2013 - May. 2013

- Taught English to 10-grade high school students.

Publications

REFEREED JOURNAL PAPERS

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.

WORKING PAPERS UNDER REVISION OR REVIEW

Richard, G. T., & **Seo, J.** (accepting with minor revision). Able to play, ready to learn: Proposing an intersectional, critical dis/abilities framework for research, design and practice in video games and learning. *Disability Studies Quarterly*.

Seo, J., & Richard, G. T. (under review). Learning analytics on a large-scale email corpus with r: Descriptive, network, and machine learning analysis. In *International conference on learning analytics and knowledge (lak) 2021*. Society for Learning Analytics Research (SoLAR).

Seo, J., & Richard, G. T. (under review). SCAFFOLDing all abilities into makerspaces: Universal design framework for accessible maker movement. *Journal of Information and Learning Sciences*.

PAPERS IN REFEREED CONFERENCE PROCEEDINGS

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

- I have contributed to the following publications for methods and research designs.

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. (accepted). *Accessible data science beyond visual models*. Talk will be presented at the rstudio::global(2021), Virtual.

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

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

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.

Grants

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

University Park, PA

PROVIDING TOUCHABLE KNOWLEDGE STRUCTURE GRAPHIC FEEDBACK FOR BLIND ONLINE LEARNERS: TABLET-BASED HAPTIC

FEEDBACK AND PAPER-BASED TACTILE FEEDBACK

Mar. 2016 - Aug. 2017

- 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.
- Developed a prototype website and mobile app for accessible knowledge structure.
- Funding amount: \$33,060 USD.

National Institute for International Education, Korean Government

Seoul, South Korea

FUTURE INTERDISCIPLINARY STUDY

2014 - 2016

- 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

Seoul, South Korea

ICE SOFT: I SEE THROUGH ASSISTIVE TECHNOLOGY

Jul. 2010 - Jun. 2011

- 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

Virtual

QUALCOMM SCHOLARSHIP

Sep. 2020

- Selected as one of the outstanding doctoral consortium proposals.

Disability:IN

Alexandria, VA

2020 NEXTGEN LEADERS

Feb. 2020 - Jul. 2020

AccessComputing, University of Washington

Seattle, WA

ACCESSSTEM RESUME CONTEST WINNERS AWARD

Dec. 2019

- Sponsored by The National Science Foundation (NSF).

The First International Conference on Quantitative Ethnography

Madison, WI

BEST DOCTORAL PROPOSAL FELLOWSHIP

Oct. 2019

- Sponsored by Cengage.

The PDK Educational Foundation

ANDREW V. KOZAK MEMORIAL FELLOWSHIP

- 1500

University Park, PA

2019

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

- Included free conference registration, shared hotel accommodations and a \$500 travel stipend.

Microsoft Research

ACM STUDENT RESEARCH COMPETITION TRAVEL AWARD

Atlanta, GA

Sep. 2017

- \$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

- 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

Service

The Pennsylvania State University

COLLEGE OF EDUCATION TECHNOLOGY COMMITTEE

University Park, PA

Aug. 2019 - May. 2020

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

The Pennsylvania State University

LIBRARIES' ACCESSIBILITY STUDENT ADVISORY GROUP

University Park, PA

Aug. 2019 - May. 2020

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

REVIEWER

Nashville, TN

2019

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

REVIEWER

Honolulu, HI

2019

The 1st International Conference on Quantitative Ethnography (ICQE)

REVIEWER

Madison, WI

2019

The 3rd Learning Sciences Graduate Student Conference (LSGSC)

REVIEWER

Nashville, TN

2018

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