JooYoung **Seo**

Ph.D. Candidate (ABD)

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

Research Areas

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

Primary Research Methods

- Supervised/Unsupervied Machine Learning-Based Text Mining
- Computational Linguistics
- Data Science-Based Reproducible Research
- Quantitative Ethnography

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*

B.A. in Education   *Mar. 2009 - Feb. 2014*

- GPA 4.08/4.50.

Sungkyunkwan University   *Seoul, South Korea*

B.A. in English Literature   *Mar. 2009 - Feb. 2014*

- GPA 4.08/4.50.

Certificate

NV Access   *Lucia South, QLD, Australia*

Certified Expert with NVDA (Non-Visual Desktop Access) Screen Reader   *Dec. 2019 - Present*

International Association of Accessibility Professional   *Atlanta, GA*

Certified Professional in Accessibility Core Competencies   *Apr. 2017 - Present*

Korean Ministry of Education   *Sejong, South Korea*

English Teacher Certificate for Secondary Education   *Feb. 2014 - Present*

Korean Ministry of Education   *Sejong, South Korea*

General Education Teacher Certificate for Secondary Education   *Feb. 2014 - Present*

Software Developments and Publications

Peer-Reviewed Data Mining Packages

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`

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`

Seo, J., & Choi, S. (2019). *Youtubecaption: Downloading youtube subtitle transcription in a tidy tibble data frame*. Retrieved from `https://CRAN.R-project.org/package=youtubecaption`

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`

Seo, J. (2019). *Ezviewr: View tidy data in preferable spreadsheet*. Retrieved from `https://github.com/jooyoungseo/ezviewr`

Seo, J. (2019). *Jladown: Writing a reproducible article for journal of learning analytics in r markdown*. Retrieved from `https://github.com/jooyoungseo/jladown`

Seo, J. (2019). *TactileR: Converting r graphics into a braille ready-to-print pdf*. Retrieved from `https://github.com/jooyoungseo/tactileR`

Seo, J., & McCurry, S. (2019). *AROW: Accessible rmarkdown online writer*. Retrieved from `http://www.arowtool.com`

Officially Contributing R Packages

- I am an official `code-contributor` for the following refereed open-source packages:

Allaire, J., Xie, Y., et al.
https://cran.r-project.org/web/packages/rmarkdown/

rmarkdown: Dynamic Documents for R | *2019*
- Contributed to improving ioslides_presentation accessibility for screen reading software.

Xie, Y.
https://cran.r-project.org/web/packages/bookdown/

bookdown: Authoring Books and Technical Documents with R Markdown | *2019*
- 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.

Allaire, J., Iannone, R., & Xie, Y.
https://cran.r-project.org/web/packages/distill/

distill: 'R Markdown' Format for Scientific and Technical Writing | *2019*
- 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.

Marwick, B.
https://github.com/benmarwick/wordcountaddc

wordcountaddin: Word counts and readability statistics in R markdown documents | *2019*
- Contributed 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).

Godfrey, A. J. R., Warren, D., Murrell, P., Bilton, T., & Sorge, V.
https://cran.r-project.org/web/packages/BrailleR/

BrailleR: Improved Access for Blind Users | *2019*
- Contributed BRLThis() function to enable blind R users to convert a graph into a pdf ready for embossing in Braille.

Research Experience

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

GRADUATE ASSISTANT   *Aug. 2016 - Present*

- Developing "Image ALT Text for HTML" and "Image ALT Text for Word" badges using the Penn State digital badges platform.
- Evaluating suitability of digital badges according to web content accessibility guidelines (WCAG) 2.0.
- Testing and consulting for accessible HTML5/CSS3 webpages for Penn State University sites and learning management tools (e.g., Angel, Canvas, Voice Thread, Adobe products, etc.)
- Engaged in a project for future research on making visualized statistical data accessible.
- Developed a package for statistical software R, called tactileR, which converts visual data into touchable graphs in conjunction with a Swell Form Heating Machine.

Playful Learning and Inclusive Design Research Group
University Park, PA

GRADUATE RESEARCHER   *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.

Online Interactions of the Blind
University Park, PA

PRINCIPAL INVESTIGATOR   *May. 2019 - Present*

- 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 - Present*

- 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.

Exploring Accessibility of Maker Toolkits
University Park, PA

PRINCIPAL INVESTIGATOR   *Jun. 2017 - Present*

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

Learning2CC
University Park, PA

SITE MANAGER   *Feb. 2015 - Dec. 2015*

- Participated in an ongoing learning community project for sharing tips for video caption for deaf learners.
- Developed Learning2CC, the online community site, using the WordPress platform.

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.

The Ministry of Knowledge Economy and Seoul National University
Seoul, South Korea

STUDENT RESEARCHER   *Feb. 2012 - Mar. 2012*

- Visited various places in California, such as CSUN conference, museums, universities, and other publiclocations, to observe universal design products and services.
- Produced a comparison report on universal design products and services in Korea and the United States.
- Presented the report to the Quality of Life Technology team at Seoul National University.

Teaching Experience

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

ACCESSIBILITY INSTRUCTOR   *Mar. 2015 - Present*

- Teaching over 30 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.

Working Experience

ICE Soft

Co-Founder and Project Manager

Seoul, South Korea

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.

National Human Rights Commission of Korea

Intern

Seoul, South Korea

May. 2010 - Nov. 2010

- Investigated illegal cases of discrimination against the disabled with regard to voting.
- Interviewed the disabled who had experienced discrimination against their voting rights.
- Produced written report for National Human Rights Commission of Korea.

Awards and Honors

AccessComputing, University of Washington
AccessSTEM Resume contest winners Award

Seattle, WA

Dec. 2019

- Sponsored by The National Science Foundation (NSF).

The First International Conference on Quantitative Ethnography
Best Doctoral Proposal Fellowship

Madison, WI

Oct. 2019

- Sponsored by Cengage.

The PDK Educational Foundation
Andrew V. Kozak Memorial Fellowship

University Park, PA

2019

- 1500

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

2017

The Pennsylvania State University
Delta Gamma Golden Anchor Award

University Park, PA

2015

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

ChungInwook Scholarship Foundation
Academic Scholarship for Doctoral Research

Seoul, South Korea

2016 - 2018

ANC Scholarship Foundation
All Nations Church Graduate Scholarship

Lake View Terrace, CA

2016

National Institute for International Education, Korean Government
Future Interdisciplinary Study of Global Korea Scholarship for Master's Research

Seoul, South Korea

2014 - 2016

Sungkyunkwan University
Academic Achievement Scholarship

Seoul, South Korea

2009 - 2013

Grants

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

Seed Funding for Start-Up Company for the Youth, City of Seoul *Seoul, South Korea*

ICE Soft: I See Everything 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.

Publications

Selected Publications

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., & 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).

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). Philadelphia, PA: International Society of the Learning Sciences (ISLS).

Choi, S., & **Seo, J.** (in press). An exploratory study of the research on caregiver depression: Using bibliometrics and lda topic modeling. *Issues in Mental Health Nursing*. `https://doi.org/10.1080/01612840.2019.1705944`

Refereed Journal Papers

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`

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.

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.

Choi, S., & **Seo, J.** (in press). An exploratory study of the research on caregiver depression: Using bibliometrics and lda topic modeling. *Issues in Mental Health Nursing*. `https://doi.org/10.1080/01612840.2019.`

Papers in Refereed Conference Proceedings

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.

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.

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). Philadelphia, PA: International Society of the Learning Sciences (ISLS).

Working Papers under Revision or Review

Richard, G. T., & **Seo, J.** (under review). 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*.

Presentations

Peer-Reviewed Conference Posters and Presentations

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

Seo, J. (2019, October). *Discovering informal learning cultures of blind individuals pursuing STEM disciplines: a quantitative ethnography using listserv archives*. Poster presented at the Doctoral Consortium of the first International Conference on Quantitative Ethnography (ICQE), Madison, WI. *Awarded the best doctoral proposal fellowship*.

Seo, J., & McCurry, S. (2019, March). *LaTeX is NOT easy: creating accessible scientific documents with R markdown*. Paper presented at the annual meeting of the CSUN Assistive Technology Conference, Northridge, CA.

Seo, J. (2018, October). *Accessibility and inclusivity in making: engaging learners with all abilities in making activities*. Paper presented at the annual meeting of the Learning Sciences Graduate Student Conference (LSGSC), Nashville, TN.

Seo, J., & Richard, G. T. (2018, June). *Accessibility, making and tactile robotics: facilitating collaborative learning and computational thinking for learners with visual impairments*. Poster presented at the 13th International Conference of the Learning Sciences (ICLS), London, UK.

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.

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.

Seo, J., AlQahtani, M., Ouyang, X., & Borge, M. (2017, June). *Embracing learners with visual impairments in CSCL*. Paper presented at the 12th International Conference on Computer Supported Collaborative Learning (CSCL), Philadelphia, PA.

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.

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.

AECT (The Association for Educational Communications and Technology) International Convention
Jacsonville, FL

THE RAPIDLY CHANGING WORLD OF ACCESSIBLE ONLINE LEARNING
Nov. 2017

- Panel Discussion: DDL - Accessible Online Learning In Concurrent Presentation.

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.

The TLT (Teaching and Learning with Technology) Symposium

University Park, PA

ENGAGING BLIND LEARNERS IN STATISTICS STUDY USING R

Mar. 2016

- Presented Penn State faculty members, instructional designers, and staff how to teach Statistics in more efficient and accessible way for the students with visual impairments using R programming environment.

The TLT (Teaching and Learning with Technology) Symposium

University Park, PA

AUTOMATIC KNOWLEDGE STRUCTURE MEASURE IN ONLINE COURSES

Mar. 2016

- Presented Penn State faculty members, instructional designers, and staff about how to employ automatic network-based measurement system to visualize students' knowledge structure of any given content.

AECT (The Association for Educational Communications and Technology) International Convention

Indianapolis, IN

ASSISTIVE TECHNOLOGIES FOR EQUAL ACCESS IN GENERAL EDUCATION

Nov. 2015

- Showcased on some combinations of ICT and assistive technologies for students with visual impairments.

Technology and Learning Conference, Montgomery County Community College

Blue Bell, PA

MORE ACCESSIBLE, MORE POTENTIAL: SIMPLE TIPS FOR ONLINE ACCESSIBILITY

Oct. 2015

- Presented conference session attendees about how to design their online learning content in an accessible way.

Service

The Pennsylvania State University

University Park, PA

COLLEGE OF EDUCATION TECHNOLOGY COMMITTEE

Aug. 2019 - Present

- Working 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 - Present

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)

Honolulu, HI

REVIEWER

2019

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

Skills

PROGRAMMING LANGUAGES

- Data Mining: R, Python, and SQL (as advanced level as being able to develop and release packages and libraries).
- Web Programming: HTML/CSS/JavaScripts/PHP (as advanced level as being able to develop and maintain accessible web modules and application).
- Operating System: Unix/Linux (as advanced level as being able to develop and maintain system-level Shell scripts for server and database programs).
- Compile Languages: C/C++ and Java (as basic level as being able to review source codes and develop simple modules).

- Others: Git, Docker, Travis CI, LaTeX, Markdown, Pandoc, Lua, and Quorum.

LANGUAGES

- English: professional fluency in reading, writing, listening and speaking.
- Korean: native fluency in reading, writing, listening and speaking.
- Japanese: basic fluency in reading, writing, listening and speaking.

SOFTWARE

- Statistical Software: R and Python (professional level), SPSS/SAS, MiniTab, and Stata.
- Office Programs: Microsoft Office and Google Suites.
- Learning Management System: Canvas and Angel.
- General Web Content Management: WordPress, Drupal, and Hugo.

Current Memberships

- Member, International Society of the Learning Sciences (ISLS)
- Member, Association for Computing Machinery (ACM)
- Member, American Educational Research Association (AERA)
- Member, Association for Educational Communications and Technology (AECT)
- Member, International Association of Accessibility Professionals (IAAP)

SEO