

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

Education

The Pennsylvania State University

PH.D. IN LEARNING, DESIGN, AND TECHNOLOGY

University Park, PA

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

M.ED. IN LEARNING, DESIGN, AND TECHNOLOGY

University Park, PA

Aug. 2014 - May. 2016

- GPA 3.97/4.0.

Sungkyunkwan University

B.A. IN EDUCATION

Seoul, South Korea

Mar. 2009 - Feb. 2014

- GPA 4.08/4.50.

Sungkyunkwan University

B.A. IN ENGLISH LITERATURE

Seoul, South Korea

Mar. 2009 - Feb. 2014

- GPA 4.08/4.50.

Certificate

International Association of Accessibility Professional

CERTIFIED PROFESSIONAL IN ACCESSIBILITY CORE COMPETENCIES

Atlanta, GA

Apr. 2017 - Present

Korean Ministry of Education

ENGLISH TEACHER CERTIFICATE FOR SECONDARY EDUCATION

Sejong, South Korea

Feb. 2014 - Present

Korean Ministry of Education

GENERAL EDUCATION TEACHER CERTIFICATE FOR SECONDARY EDUCATION

Sejong, South Korea

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). *Jladow: Writing a reproducible article for journal of learning analytics in r markdown*. Retrieved from <https://github.com/jooyoungseo/jladow>
- 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:

Xie, Y.

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

BOOKDOWN: AUTHORING BOOKS AND TECHNICAL DOCUMENTS WITH R MARKDOWN

2019

- Developed `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 in an RTF file format 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/wordcountaddin>

WORDCOUNADDIN: 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 public locations, 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

- 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.

Seoul, South Korea

Jul. 2010 - Jun. 2011

National Human Rights Commission of Korea

INTERN

- 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.

Seoul, South Korea

May. 2010 - Nov. 2010

Awards and Honors

The First International Conference on Quantitative Ethnography (in partnership with Cengage)

CENGAGE BEST DOCTORAL PROPOSAL FELLOWSHIP

Madison, WI

Oct. 2019

The PDK Educational Foundation

ANDREW V. KOZAK MEMORIAL FELLOWSHIP

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

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

2017

Microsoft Research

ACM STUDENT RESEARCH COMPETITION TRAVEL AWARD

Atlanta, GA

2017

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

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

FEEDBACK AND PAPER-BASED TACTILE FEEDBACK

University Park, PA

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

- 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).

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.

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

Jacksonville, 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

COLLEGE OF EDUCATION TECHNOLOGY COMMITTEE

University Park, PA

Aug. 2019 - Present

- 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 - Present

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

The 2nd Learning Sciences Graduate Student Conference (LSGSC)

REVIEWER

Bloomington, IN

2017

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

FUNDING REVIEWER

University Park, PA

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)