

# 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

## Professional Appointment

### School of Information Sciences

University of Illinois at

Urbana-Champaign

ASSISTANT PROFESSOR

Sep. 2021 - Present

### National Center for Supercomputing Applications

University of Illinois at

Urbana-Champaign

FACULTY AFFILIATE

Dec. 2021 - Present

### Illinois Informatics Institute

University of Illinois at

Urbana-Champaign

FACULTY AFFILIATE

Sep. 2021 - Present

### IDEA (Inclusion, Diversity, Equity, and Access) Institute

University of Illinois at

Urbana-Champaign

FACULTY AFFILIATE

Jan. 2022 - Present

### RStudio

Boston, MA

SOFTWARE ENGINEER INTERN

May. 2020 - Aug. 2020

## 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

- The following notations only apply to September 2021 and after.

#: derived from the candidate's thesis.

\*: publication that has undergone stringent editorial review by peers.

+: publication that was invited and carries special prestige and recognition.

## REFEREED JOURNAL PAPERS

\* **Seo, J.**, Moon, J., Choi, G. W., & Do, J. (2022). A Scoping Review of Three Computational Approaches to Ethnographic Research in Digital Learning Environments. *TechTrends*, 66(1), 102–111. <https://doi.org/10.1007/s11528-021-00928-6>

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>

\* **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*, 122(11/12), 795–815. <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. (in press). 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*.

## PAPERS IN REFEREED CONFERENCE PROCEEDINGS

\* Lee, C. Y. P., Zhang, Z., Herskovitz, J., **Seo, J.**, & Guo, A. (2022). CollabAlly: Accessible Collaboration Awareness in Document Editing. *CHI Conference on Human Factors in Computing Systems*, 1–17. <https://doi.org/10.1145/3491102.3517635>. Honorable mention award.

\* 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).

\* Huh, M., & **Seo, J.** (in press). A duoethnographic study of a mixed-ability team in a collaborative group programming project. In *Proceedings of the 15th international conference on computer supported collaborative learning (CSCCL), 2022*. International Society of the Learning Sciences (ISLS).

\* **Seo, J.**, & Dogucu, M. (accepted). Teaching visual accessibility in the introductory data science classes: Why, what, when, and how. *The 2022 symposium on data science & statistics*. Pittsburgh, PA, USA: American Statistical Association.

#### 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.

#### WORKING PAPERS UNDER REVISION OR REVIEW

Moon, J., Lee, D., Choi, G. W., **Seo, J.**, Do, J., & Lim, T. (in preparation). *Learning analytics in seamless learning environments: A systematic review*.

Zhang, Z., Kaushik, S., **Seo, J.**, Yuan, H., Das, S., Findlater, L., ... Wang, Y. (resubmission preparation). *ImageAlly: A Human-AI Hybrid Approach to Support Blind People*.

## Conference Presentations and Invited Talks

**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->

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.

## Software Developments and Publications

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### 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). *Isldown: Writing a reproducible conference paper for the international society of the learning sciences annual meeting in r markdown*. Retrieved from <https://github.com/jooyoungseo/isldown>. R package version 0.0.0.9000.

**Seo, J., & Rosenberg, J. M.** (2020). *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). *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

## Teaching Experience

- IS 407: Introduction to Data Science (spring 2022).
- IS 569: Internship (spring 2022). *Advised Ankita Khiratkhar (MS IM).*
- IS 589: Independent Study (spring 2022). *Advised Chetna Beri (MS IM).*
- INFO 399: Individual Study (spring 2022). *Advised Leo Zhang (CS undergrad → Currently, Master's student at UCLA Data Science dept).*
- IS 389: Independent Study (spring 2022). *Advised Miso Kim (BS IS).*
- IS 226: Introduction to Human-Computer Interaction (fall 2021). *Co-teaching with Dr. Yang Wang.*
- Served as an annual review committee member for iSchool Ph.d. student Smirity Kaushik (advisor Dr. Yang Wang) (spring 2022).
- Served as a field exam committee member for iSchool Ph.D. candidate Jaihyun Park (advisor Dr. Ryan Cordell) (spring 2022).

## Grants

**Seo, J.** (PI) (submitted for May 2022 - May 2023). Improving Accessible Reproducibility for Data Science Publishing System. *RStudio PBC*. Requested funding amount: \$54,327.

Ludäscher, B. (PI), **Seo, J.** (Co-PI), & Vilhuber, L. (Co-PI) (submitted for Aug 2022 - Aug 2023). Whole Tale Accessibility Project. *The Sloan Foundation*. Requested funding amount: \$225,000.

Choi, S. (PI), **Seo, J.** (Co-PI), Mahoney, M. (Co-PI), Davies, C. (Co-PI) (submitted for July 2022 - December 2023). Understanding the Sleep Patterns of Blind Populations Using Self-Tracking Technologies - What is It Like and How can We Support It?. *The Center on Health, Aging, and Disability, College of Applied Health Sciences*. Requested funding amount: \$30,000.

**Seo, J.** (PI), & Koh, K. (Co-PI) (submitted for Aug 2022 - May 2025). Promoting Computational Thinking Skills for Blind and Visually Impaired Teens through Accessible Library Makerspaces. *IMLS (Institute of Museum and Library Services) National Leadership Grants for Libraries*. Requested funding amount: \$498,638.

**Seo, J.** (PI) (awarded: unrestricted beyond Jan 2022 - December 2022). Data Accessibilization: Making Data Science Education Accessible for Blind Learners. *Wallace Foundation grant, Emerging Scholars Program of the International Society of the Learning Sciences (ISLS)*. Awarded funding amount: \$10,000.

## Awards and Honors

### ACM Richard Tapia Celebration of Diversity in Computing Conference

QUALCOMM SCHOLARSHIP

- Selected as one of the outstanding doctoral consortium proposals.

Virtual

Sep. 2020

### Disability:IN

2020 NEXTGEN LEADERS

- Selected as one of the leaders in the U.S. for diversity.

Alexandria, VA

Feb. 2020 - Jul. 2020

### AccessComputing, University of Washington

ACCESSSTEM RESUME CONTEST WINNERS AWARD

- Sponsored by The National Science Foundation (NSF).

Seattle, WA

Dec. 2019

### The First International Conference on Quantitative Ethnography

BEST DOCTORAL PROPOSAL FELLOWSHIP

- Sponsored by Cengage.

Madison, WI

Oct. 2019

### The PDK Educational Foundation

ANDREW V. KOZAK MEMORIAL FELLOWSHIP

- Awarded \$1,500 for research contribution to public education.

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

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

SEARCH COMMITTEE FOR DIRECTOR/ASSISTANT DEAN, DIVERSITY, EQUITY, INCLUSION, AND ACCESSIBILITY (DEIA)

Champaign, IL

April 2022 - Present

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

DIVERSITY COMMITTEE

Champaign, IL

Sep. 2021 - Apr. 2022

## International Web for All Conference (W4A) 2022

PROGRAM COMMITTEE MEMBER

Virtual

Dec. 2021 - Feb. 2022

## 15th International Conference on Educational Data Mining

ACCESSIBILITY CHAIR

Durham

Oct. 2021 - Jul. 2022

## Special issue on ethnography and learning design

JOURNAL REVIEWER

TechTrends

Sep. 2021

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

REVIEWER

International Society of the Learning  
Sciences

2020

- Reviewed abstracts on equity and disability.

## The Pennsylvania State University

COLLEGE OF EDUCATION TECHNOLOGY COMMITTEE

University Park, PA

Aug. 2019 - May. 2020

- Worked 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, 2021)

REVIEWER

Honolulu, HI, Yokohama, Japan

2019, 2020

## 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

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- International Society of the Learning Sciences (ISLS)
- Association for Computing Machinery (ACM)
- American Statistical Association (ASA)
- International Society for Quantitative Ethnography (ISQE)
- International Association of Accessibility Professionals (IAAP)
- International Educational Data Mining Society (IEDMS)