

Sukanya Moudgalya

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LinkedIn, Twitter, <https://sukanyam.github.io/>

Education

Michigan State University

Ph.D., Educational Psychology and Educational Technology (EPET),

East Lansing

2017–Present

The University of Texas at Austin

MA, Learning Technologies,

Austin

2015–2017

SASTRA University

BS, Biotechnology,

India

2010–2014

Publications

Peer-reviewed conference proceedings:

Moudgalya, S.K., & Willet, K. B. S. (2019, March). Communities and Clusters: User Interactions in an Online Discussion Forum for Computer Science Education. In *Society for Information Technology & Teacher Education International Conference*, (pp. 2037-2044). Association for the Advancement of Computing in Education (AACE).

Moudgalya, S.K., Rich, K., Yadav, A., & Koehler, M. J. (2019, February). Computer Science Educators Stack Exchange: Perceptions of equity and gender diversity in Computer Science. In *Proceedings of the 50th ACM Technical Symposium on Computer Science Education*, (pp. 1197-1203). ACM

Staudt Willet, K. B., **Moudgalya, S.K.**, Boltz, L. O., Greenhalgh, S. P., & Koehler, M. J. (2018, March). Back to the gaming board: Understanding games and education through board game reviews. In *Society for Information Technology Teacher Education International Conference* (pp. 495-503). Association for the Advancement of Computing in Education (AACE).

Peer-reviewed conference presentations:

Moudgalya, S.K. (2020, April). *Online Sharing Practices in a Computer Science Education Discussion Forum*. Paper to be presented at the Annual meeting of the American Educational Research Association, in San Francisco, CA.

Staudt Willet, K. B., **Moudgalya, S.K.** (2019, October). *Community, network, or space: Conceptualizing inspired professional learning in an online discussion forum*. Paper presented at the Association for Educational Communications and Technology (AECT) International Convention 2019. Las Vegas, NV.

Doctoral consortium presentation:

Moudgalya, S.K. (2019, July). Educator Supports in Broadening Participation in Computing. In *Proceedings of the 2019 ACM Conference on International Computing Education Research*, (pp. 343-344). ACM

Research and Projects

Culturally Responsive Computing in K-12

Graduate Research Assistant,

MSU

August 2019–Present

- I work with a multi-disciplinary team to bring culturally responsive computing (CRC) to high-school Computer Science classrooms.

- We look at existing curriculum and find ways to align the curricular needs to the principles of CRC. This involves working closely with teachers and community experts while also developing pedagogical strategies, tools, and suitable lesson plans.

CS POGIL

MSU

Graduate Research Assistant,

August 2019–Present

- I research ways in which introduction of process oriented guided inquiry (POGIL) in computer science (CS) helps undergraduate students with their self-efficacy, sense of belonging, and skills such as collaboration in CS.

CT4NYC

MSU

Graduate Research Assistant,

May 2019–Present

- This project focuses on bringing 'Computational Thinking' (CT) to K-5 pre-service and in-service teachers in NYC public schools.
- I help with research, development, conduct summer professional development workshops, and work closely with the teachers (interviews and multiple conversations) to develop CT-infused lessons.

CSEdSE

MSU

Self-initiated research project,

May 2018–May 2019

- I used thematic analysis to code discussion data to identify and analyze how educators spoke about issues of equity and gender diversity as it relates to the field of computing education.
- I also used Social Network Analysis to visualize the nature of participant networks in a Computer Science (CS) educators discussion forum.

TechNav, Design Studio

MSU

Graduate Research Assistant,

August 2017–May 2019

- Worked with robotic telepresence devices, screen recording software, and conferencing software to support virtual learning for remote doctoral students in the EPET program.
- Helped organize a workshop on robotic telepresence for the visiting students and researchers from the Confucius institute (<http://www.education.msu.edu/cimsu/>).

Instructional Design

UT Austin

Graduate Research Assistant,

September 2016–May 2017

- Created instructional material for faculty to help them with technology integration
- Created and maintained lab websites

Research Internship

McGraw-Hill Education, Boston

Data Science and Education,

June 2016–August 2016

- Wrote a proposal for doing a project on Adaptive Tutoring Systems
- Conducted a literature survey about theories of motivation in online environments, motivation detection through data analytics and design of learning environments.
- Wrote a research paper on how to incorporate motivation in e-learning environments, such as Intelligent Tutoring Systems.

Cervical Cancer Screening

IIT Bombay

Junior Research Fellow,

August 2014–August 2015

- Developed skills based tutorials, along with plans for implementation and evaluation, for primary health workers in India.
- Conducted field visits and focus group interviews with health workers.

Teaching

Reflections on Learning

MSU

Graduate Teaching Assistant,

January 2019–May 2019

- This is an introductory educational psychology course where I covered topics such as theories of learning, development, motivation, and culture and diversity as they relate to teaching in K-12 classrooms.

Capstone Course in Educational Technology

MSU

Graduate Teaching Assistant,

May 2018–December 2018

- This is a Masters level course where in-service create online portfolios

Teaching and Learning with Technology

MSU

Graduate Teaching Assistant,

August 2017– May 2019

- This is an educational technology course where I introduced to pre-service teachers concepts like media and information literacy, computational thinking, and block-based programming

Software and programming skills

Operating Systems: Mac, Linux, Windows

Programming: CSS3, HTML5

Word Processing: Word Documents, \LaTeX

Image Rendering: GIMP, Blender

Instructional: Adobe Captivate

Data Processing: Spreadsheets, SPSS, R Statistical Software & SQL, Tableau

Awards

Erickson Research Fellowship: A five year fellowship from the College of Education at MSU (2017-2022)

CUMREC Fellowship: A one-time enrollment fellowship from the Graduate School at MSU (2017)

Dean's Merit Scholarship: Granted by SASTRA University in 2011, 2012, 2014 for academic performance

Desh Videsh Scholarship: Granted by SASTRA University in 2014, for semester abroad program