

AADARSH PADIYATH

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Last Updated: April 2024

RESEARCH

RESEARCH INTERESTS

Human-Computer Interaction, Computing Education, Computing Culture, Broadening Participation in Computing, Computing Ethics, Computing Curricula, Online Textbooks

EDUCATION

University of Michigan, Ann Arbor

Ph.D. Candidate in Information

August 2021 - Present

Advisors: Barbara Ericson and Mark Guzdial

Georgia Institute of Technology

M.S. in Computer Science

August 2019 - August 2021

Advisors: Brian Magerko and Thad Starner

Georgia Institute of Technology

B.S. in Computer Science

August 2016 - August 2019

AWARDS AND HONORS

STEM Diversity Graduate Fellowship with National Institute of Standards and Technology (NIST)

August 2021 - Present

University of Michigan Center for Ethics, Society, and Computing Graduate Researcher Fellow

August 2021 - Present

GRANTS

ACM Special Interest Group in Computer Science Education (SIGCSE) Special Projects Grant \$5000

Development and Validation of the Critical Consciousness in Computing Scale.

January 2024

University of Michigan Rackham Graduate School \$1500

Development of the Critical Consciousness in Computing Scale.

November 2023

Undergraduate Research Opportunity Program \$1000

Examining Tensions in Large Language Model Use in Undergraduate Programming Classrooms.

October 2023

Center for Ethics, Society, and Computing \$500

Gayze Tracking: Naïve Camp is Computer Science for Social Good.

September 2022

PEER-REVIEWED PUBLICATIONS

Journal Articles

J.1 - **Aadarsh Padiyath**. 2024. A Realist Review of Undergraduate Student Attitudes towards Ethical Interventions in Technical Computing Courses. *ACM Trans. Comput. Educ. (TOCE)*.

Conference Papers

C.4 - **Aadarsh Padiyath**, Kyle Ashburn, and Barbara Ericson. 2024. Student Reactions to Integrating Social Justice into a Computer Science Project. 2024 Technical Symposium on Computer Science Education (SIGCSE TS 2024). Association for Computing Machinery, New York, NY, USA, 1315.

C.3 - **Aadarsh Padiyath**, Tamara Nelson-Fromm, and Barbara Ericson. 2023. Critiquing Computing Artifacts through Programming Satirical Python Scripts. 2023 Conference on Research in Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT 2023).

C.2 - Duri Long, **Aadarsh Padiyath**, Anthony Teachey, and Brian Magerko. 2021. The role of collaboration, creativity, and embodiment in AI learning experiences. 2021 Conference on Creativity and Cognition (C&C 2021). Association for Computing Machinery, New York, NY, USA.

C.1 - India Irish, Roy Finkelberg, Daniel Nkemu, Swar Gujrana, **Aadarsh Padiyath**, Sumedha Raman, Chirag Tailor, Rosa Arriaga, Thad Starner. 2020. Parqr: Automatic post suggestion in the piazza online forum to support degree seeking online masters students. 2020 Conference on Learning at Scale (L@S 2020). Association for Computing Machinery, New York, NY, USA.

Posters

P.3 - **Aadarsh Padiyath**. 2023. Bringing Realist Synthesis to CS Education Research. In Proceedings of the 28th ACM Conference on Innovation and Technology in Computer Science Education Vol. 2 (ITiCSE 2023). Association for Computing Machinery, New York, NY, USA.

P.2 - **Aadarsh Padiyath** and Barbara Ericson. 2023. Critiquing Computing Artifacts through Programming Satirical Python Scripts. In Proceedings of the 54th ACM Technical Symposium on Computer Science Education V. 2 (SIGCSE 2023). Association for Computing Machinery, New York, NY, USA.

P.1 - **Aadarsh Padiyath**, Kyle Ashburn, and Barbara Ericson. 2022. Student Reactions to Integrating Social Justice into a Computer Science Project. 2022 Conference on Research in Equity and Sustained Participation in Engineering, Computing, and Technology. (RESPECT 2022)

Technical Demonstrations

TD.1 - **Aadarsh Padiyath** and Brian Magerko. 2021. desAIner: Exploring the Use of "Bad" Generative Adversarial Networks in the Ideation Process of Fashion Design. 2021 Conference on Creativity and Cognition (C&C 2021). Association for Computing Machinery, New York, NY, USA.

Invited Publications

Mark Guzdial, Emma Doodoo, Bahare Naimpour, Tamara Nelson-Fromm, and **Aadarsh Padiyath**. 2023. Putting a Teaspoon of Programming into Other Subjects. Commun. ACM 66, 5 (May 2023), 24–26.

SERVICE

Invited External Paper Reviewer

Conferences: ACM ITiCSE (2024), ACM SIGCSE TS (2023-2024), IEEE RESPECT (2022-2023), ACM C&C (2021-2022)

Journals: ACM TOCE (2023), ACM JRC (2024)

Academic Community Service

Doctoral Executive Committee Member

May 2022 - May 2023

CS Education Reading Group Leader

February 2023 - Present

Invited Talks

Michigan State University - Justice, Education, and Technology Lab

November 6th, 2023

TEACHING

Informal Teaching

UM Women in Science and Engineering Python Bootcamp

July 2022, July 2023, June 2024