

AADARSH PADIYATH

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Last Updated: December 2025

EDUCATION

University of Michigan, Ann Arbor

Ph.D. in Information

August 2021 - Expected Graduation: June 2026

Committee: Barbara Ericson (Chair), Mark Guzdial, Casey Fiesler, Kentaro Toyama

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

Rackham One-Term Dissertation Fellowship Honorable Mention (1 semester of full support)

AY 2025 - 2026

UMSI Outstanding Graduate Student Instructor Nominated

AY 2025 - 2026

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

August 2021 - Present

STEM Diversity Graduate Fellowship with NIST (3 years of full support)

June 2021 - May 2024

RESEARCH

GRANTS

External

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

Internal

University of Michigan Rackham + School of Information Travel Grants

\$9100

Funding for Conference Travel.

2022-2025

University of Michigan Rackham Graduate School

\$1500

Development of the Critical Consciousness in Computing Scale.

November 2023

University of Michigan 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

The Journal of Irresponsible Computing (JIrC).

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 Transactions on Computing Education (TOCE).

Conference Papers (Conferences are top-tier publication venues for computing. Mentored student. *Equal contribution.)

C.ii - **Aadarsh Padiyath**, Tamara Nelson-Fromm. 2026. *Reflecting on Thematic Analysis in Computer Science Education Research: A Field Guide for Researchers and Reviewers*. 2026 ACM Technical Symposium on Computer Science Education (SIGCSE TS 2026). [Best Paper Award, 30% Acceptance Rate]

C.10 - Tamara Nelson-Fromm, **Aadarsh Padiyath**, and Mark Guzdial. 2026. *How Teacher Educators Adapt Debugging Instruction for Non-CS Teachers in K-12 Professional Development Practices*. 2026 ACM Technical Symposium on Computer Science Education (SIGCSE TS 2026). [30% Acceptance Rate]

C.9 - **Aadarsh Padiyath**, Casey Fiesler, Mark Guzdial, and Barbara Ericson. 2025. *Validation of the Critical Reflection and Agency in Computing Index: Do Computing Ethics Courses Make a Difference?*. 2025 ACM Conference on International Computing Education Research (ICER 2025). [19% Acceptance Rate]

C.8 - **Aadarsh Padiyath**, Mark Guzdial, and Barbara Ericson. 2025. *Development of the Critical Reflection and Agency in Computing Index*. 2025 ACM Conference on Human Factors in Computing Systems (CHI 2025). [Honorable Mention - Top 5% Paper, 25% Acceptance Rate]

C.7 - Barbara Ericson, Xingjian Gu, Zihan Wu, Shefali Patel, **Aadarsh Padiyath**. 2025. *Can a Free Tool in an Ebook Platform, Searchable Question Bank, and Summer Workshop Help Instructors Adopt Peer Instruction?*. 2025 ACM Technical Symposium on Computer Science Education (SIGCSE TS 2025). [32% Acceptance Rate]

C.6 - **Aadarsh Padiyath**, Diego Viramontes Vargas, and Barbara Ericson. 2024. *Examining the Relationship between Socioeconomic Status and Beliefs about Large Language Models in an Undergraduate Programming Course*. 2024 ACM SIGCSE Virtual Conference (SIGCSE Virtual 2024). [33% Acceptance Rate]

C.5 - **Aadarsh Padiyath**, Xinying Hou, Amy Pang, Diego Viramontes Vargas, Xingjian Gu, Tamara Nelson-Fromm, Zihan Wu, Mark Guzdial, and Barbara Ericson. 2024. *Insights from Social Shaping Theory: The Appropriation of Large Language Models in an Undergraduate Programming Course*. 2024 ACM Conference on International Computing Education Research (ICER 2024). [20% Acceptance Rate]

C.4 - **Aadarsh Padiyath**, Kyle Ashburn, and Barbara Ericson. 2024. *Student Reactions to Integrating Social Justice into a Computer Science Project*. 2024 ACM Technical Symposium on Computer Science Education (SIGCSE TS 2024). [33% Acceptance Rate]

C.3 - **Aadarsh Padiyath**, Tamara Nelson-Fromm, and Barbara Ericson. 2023. *Critiquing Computing Artifacts through Programming Satirical Python Scripts*. 2023 IEEE 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 ACM Conference on Creativity and Cognition (C&C 2021).

C.1 - India Irish, Roy Finkelberg, Daniel Nkemelu, Swar Gujrani, **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 ACM Conference on Learning at Scale (L@S 2020).

Working Group Reports

WGR.1 - Barbara J. Ericson, Janice L. Pearce, Susan H. Rodger, Andrew Csizmadia, Rita Garcia, Francisco J. Gutierrez, Konstantinos Liaskos, **Aadarsh Padiyath**, Michael James Scott, David H. Smith, Jayakrishnan M. Warriem, and Angela Zavaleta Bernuy. 2023. *Multi-Institutional Multi-National Studies of Parsons Problems*. In Proceedings of the 2023 Working Group Reports on Innovation and Technology in Computer Science Education (ITiCSE-WGR 2023).

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).

Invited Publications

IP.2 - **Aadarsh Padiyath**. 2024. *Do I Have A Say In This, Or Has ChatGPT Already Decided For Me?* 2024. Crossroads, The ACM Magazine for Students (XRDS)

IP.1 - Mark Guzdial, Emma Dodo, Bahare Naimpour, Tamara Nelson-Fromm, and **Aadarsh Padiyath**. 2023. *Putting a Teaspoon of Programming into Other Subjects*. Commun. ACM (CACM)

Posters

P.6 - Aiden Johnson, Aurelia Peterson Rajalingam, **Aadarsh Padiyath** and Jean Salac. 2026. *Integrating Critical Pedagogy into Undergraduate Software Design*. In Proceedings of the 57th ACM Technical Symposium on Computer Science Education V. 2 (SIGCSE 2026).

P.5 - **Aadarsh Padiyath**. 2025. *The Development and Validation of the Critical Reflection and Agency in Computing Scale*. In Proceedings of the 56th ACM Technical Symposium on Computer Science Education V. 2 (SIGCSE 2025).

P.4 - **Aadarsh Padiyath**. 2024. *Assessing Undergraduate CS Students’ Attitudes Towards Ethical and Critically Conscious Computing*. 2024 ACM Conference on International Computing Education Research (ICER 2024).

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).

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).

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).

SERVICE

Invited Talks

hear.say "Extra Credit" Lecture	June 1st, 2025
TOCE@SIGCSE Technical Symposium	February 26th, 2025
United Kingdom ACM SIGCSE Journal Club	November 4th, 2024
Michigan State University - Justice, Education, and Technology Lab	November 6th, 2023
UM School of Information Annual Faculty Meeting	May 25th, 2023

Invited External Paper Reviewer

Conferences: ACM CHI (2025), ACM/IEEE RESPECT (2022-2025), ACM SIGCSE Virtual (2024), ACM ITiCSE (2024-2025), ACM SIGCSE TS (2023-2026), ACM C&C (2021-2022)
Journals: ACM TOCE (2023-2025), ACM JRC (2024), IJDCI (2024), Computers & Education: AI (2024-2025)

Expert Interview

Gartner Research - *Copilot Adoption for Software Engineers* November 7th, 2024

Academic Community Service

UM CS Education Research Weekly Seminar Organizer	February 2023 - Present
UM School of Information First Semester Experience Panel - Navigating Advisor/Advisee Relationships	September 11th, 2025
UM School of Information Doctoral Student Success Series - How to Build Your Mentoring Network	March 31st, 2025
UM School of Information PhD Application Reviewer	2023, 2024
UM School of Information Doctoral Executive Committee Member	May 2022 - May 2023

Culture and Community Outreach Seminars

UM School of Information - Wolverine Pathways	July 15th, 2025
UM School of Information - Wolverine Pathways	July 19th, 2024
UM School of Information - Community College Summer Institute	June 4th, 2023
UM School of Information - Wolverine Pathways	July 27th, 2022
UM School of Information - LSAMP-NXTGen	July 19th, 2022
UM School of Information - Community College Summer Institute	June 6th, 2022

Mentored Undergraduate/Graduate Students

S.4 - Jessica Shen	AY 2025 - 2026
S.3 - Brooke Compton	AY 2024 - 2025
S.2 - Amy Pang: C.5, C.6	AY 2023 - 2024
S.1 - Diego Viramontes Vargas: C.5, C.6	AY 2023 - 2024

TEACHING

Teaching Assistantship

SI 206: Data-Oriented Programming - <i>Python</i>	Fall 2024, Winter 2025
SI 507: Intermediate Programming - <i>Python</i>	Fall 2025, Winter 2026

Informal Teaching

UM Women in Science and Engineering - One Week Python Bootcamp	Summers 2022 - 2024
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