

# Ashlyn Campbell

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## INTERESTS

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Computing Education, Human-Centered Artificial Intelligence

## EDUCATION

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### University of Michigan

Doctorate of Philosophy in Information

*Advised By:* Dr. Barbara Ericson & Dr. Mark Guzdial

2025 — Present  
Ann Arbor, Michigan

### Georgia State University, GPA: 4.04/4.00

Bachelor of Science in Computer Science, Concentration in Data Science, Minor in Sociology

**Honors Thesis:** Artificial Intelligence for Intersectional Analysis in Computing Education Research

*Advised By:* Dr. Anu Bourgeois & Dr. Mario Kubek

08/2021 — 05/2025  
Atlanta, Georgia

## PUBLICATIONS

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### Papers

- **Ashlyn Campbell**, Anu Bourgeois, and Nannette Napier. RISE Stars: An Experience Report on a Cohort of Black Freshmen Women in Computing. ACM SIGCSE 2025

### Posters

- **Ashlyn Campbell**. The Ontological-Centered Artificial Intelligence Tool. Georgia State Honors Research Conference
- **Ashlyn Campbell**. Maternal Health Monitor+: A Personalized Computational Framework for Early Detection and Intervention. NSBE 50th Conference Technical Research Exhibition, Journal of Black Excellence in Engineering, Science, & Technology

## EXPERIENCE

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### Lawrence Livermore National Laboratory, Graduate Researcher

Data Science Summer Institute (DSSI), Advised by: Saurabh Narain

05/2025 — 08/2025

### Clemson University, Undergraduate Research Assistant

Human and Technology (HAT) Lab REU, Advised by: Kelly Caine & Bart Knijnenburg

Collaborate on NSF projects focusing on data privacy and computing education.

01/2025 — Present

### Microsoft, Software Engineer Internship

Collaborated on project specs and optimized cloud-based application integration.

Tools: TypeScript

06/2024 — 09/2024

### Raytheon Technologies, Software Engineering Co-Op

Enhanced field efficiency and software quality through scripting and testing.

Tools: Python, C++

01/2023 — 08/2023

### Georgia Community Action Association, Data Analytics Internship

Presented data models and outcomes for informed decision-making.

Tools: Python, Tableau

05/2022 — 01/2023

## TEACHING

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### Undergraduate Teacher Assistant at Georgia State University

*Introduction to Python Programming & Software Engineering Capstone*

- Worked with professors to manage grading and office hours sessions for course sizes of 100-200 students.

09/2023 — 05/2025

### Mathematics Student Assistant at Georgia State University

*College Algebra*

- Delivered 1:1 tutoring for recession courses over 300 students.

09/2021 — 05/2022

### Mathematics Tutor

*Geometry, High School Algebra 1&2*

- Taught middle & high school students at local community centers & virtual zoom environments.

10/2020 — 04/2022

## TALKS

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### Presentations

- **Presenter** ACM Special Interest Group for Computer Science Education (SIGCSE) 2025
- **Presenter**, Georgia State Honors Research Conference (GSURC) 2025
- **Presenter**, Georgia State Honors Research Conference (GSURC) 2024

### Panels

- **Panelist**, Faculty Talk, Cultural Competence in Computing (3C) Fellows by Duke University 2025
- **Panelist**, Women's History Month Celebration by WomenLead 2024

## LEADERSHIP & OUTREACH

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- **Student Advisory Board Member**, Alliance for Identity-Inclusive Computing Education 03/2025 — Present
- **Program Coordinator & Founder of Stars**, RISE in Computing 05/2023 — Present  
*Created a network of 50+ freshmen Black women, 25+ junior/senior Black women to increase retention through community-centered projects.*
- **Executive Board Member**, National Society of Black Engineers (NSBE) 09/2023 — 06/2024

## AWARDS & SCHOLARSHIPS

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- Rackham Merit Fellowship, University of Michigan 2025
- Outstanding Senior Award in Computer Science, Georgia State University 2025
- FOCUS Scholar, Georgia Institute of Technology 2025
- William R. Hearst Scholar, Georgia State University 2025
- Emerging Leaders in AI Fellow, Black in AI 2024
- Black Issues in Computing Education (BICE), *Dominican Republic*, NCWIT Scholar 2023
- Benjamin Gilman International Scholarship, *Bali, Indonesia*, U.S. Department of State 2023
- Sprout Social Scholar, United Negro College Fund (UNCF) 2023
- WomenLead Scholar, TEDWomen Conference 2023
- Special Mention Award, Morgan Stanley Hackathon 2022
- Career Prep Fellow, Management Leadership for Tomorrow (MLT) 2023
- Dell Scholar, WomenLead 2022

## SKILLS

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- **Programming Languages:** Proficient: Python, Java, SQL; Familiar: C/C++, JavaScript, HTML/CSS
- **Data Tools:** Python (PyTorch, Pandas, Matplotlib, Scikit-learn), PostgreSQL, MySQL, Alteryx, Tableau, QGIS, Jupyter, Anaconda
- **Technologies & Frameworks:** Git, Subversion, Docker, Linux, Azure, Flask, Node.js, React Native
- **Advanced Undergraduate Coursework:** Fundamentals of Data Science, Machine Learning Research Experience, Database Systems, Data Visualization, Social Statistics, Data Structures & Algorithms, Social Research Methods, Big Data for Public Good

## SERVICE

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- Volunteer, ACM SIGCSE 2025
- Mentor, SMASH AI Hackathon 2024
- Service Leader, Panther Plunge 2024
- Volunteer, Black Mamas Matter Alliance (BMMA) 2024
- Volunteer, Atlanta PRIDE 2024
- Volunteer, ACLU Atlanta PRIDE 2023
- Presenter, 3D Girls 2023