Noelle Brown

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Google Scholar

EDUCATION

2021 - 2024 **Ph.D. in Computing**
University of Utah
Dissertation: *Teaching Computing Ethics Through Technical Details*
Advisor: Prof. Eliane S. Wiese (Chair)
Committee: Prof. Casey Fiesler, Prof. Mark Guzdial, Prof. Sameer Patil, Prof. Vineet Pandey

2017 - 2019 **M.S. in Data Science**
Southern Methodist University
Advisor: Prof. Jake Drew
Thesis: *Postsecondary Attainment: Identifying Areas to Improve Retention for North Carolina Community Colleges*

2011 - 2015 **B.S. in Mathematics**
Colorado State University
University Honors Scholar, Cum Laude

ACADEMIC APPOINTMENTS

University of Utah, Salt Lake City, UT
2024 - present *Assistant Professor (Lecturer)*, Kahlert School of Computing
2021 - 2024 *Graduate Research Assistant*, Kahlert School of Computing (Mentor: Eliane S. Wiese)

PEER-REVIEWED PUBLICATIONS

In computing education, peer-reviewed conference proceedings are archival publications, and leading conferences are highly selective research venues.

* denotes equal contribution | ^ denotes mentored student

CS1, but Which One?: Guiding Student Self-Placement in Multi-Pathway Introductory Computing (accepted)
Noelle Brown and Eric Heisler (2027)
ACM SIGCSE: Technical Symposium on Computer Science Education

A Systematic Review of Approaches for Evaluating Students' Function-Level Code Structure Knowledge with a Catalog of All Discussed Patterns
Sara Nurollahian, **Noelle Brown**, Anna N. Rafferty, and Eliane S. Wiese (2026)
ACM TOCE: Transactions on Computing Education

Evaluating Micro-Insertion as a Method for Teaching Responsible Computing: Results from a Randomized Controlled Experiment
Noelle Brown, Sara Nurollahian, and Eliane S. Wiese (2025)
ACM TOCE: Transactions on Computing Education

Teaching Ethics in Computing: A Systematic Literature Review of ACM Computer Science Education Publications
Noelle Brown*, Benjamin Xie*, Ella Sarder, Casey Fiesler, and Eliane S. Wiese (2024)
ACM TOCE: Transactions on Computing Education

Toward Building Design Empathy for People with Disabilities Using Social Media Data: A New Approach for Novice Designers
Tamanna Motahar, **Noelle Brown**, Eliane S. Wiese, and Jason Wiese (2024)
ACM DIS: Designing Interactive Systems
🎗 Honorable Mention Award

Growth in Knowledge of Programming Patterns: A Comparison Study of CS1 vs. CS2 Students
Sara Nurollahian, Anna N. Rafferty, **Noelle Brown**, and Eliane S. Wiese (2024)
ACM SIGCSE: Technical Symposium on Computer Science Education

Designing Ethically-Integrated Assignments: It's Harder Than it Looks
Noelle Brown, Koriann South^, Suresh Venkatasubramanian, and Eliane S. Wiese (2023)
ACM ICER: International Computing Education Research Conference

The Shortest Path to Ethics in AI: An Integrated Assignment Where Human Concerns Guide Technical Decisions
Noelle Brown, Koriann South^, and Eliane S. Wiese (2022)
ACM ICER: International Computing Education Research Conference

WORKSHOPS & POSTERS

Papers that contribute to workshops or were accepted as posters. These papers have been lightly reviewed or refereed.

Ethics vs. Abstraction: Comparing Learning Outcomes from Ethics-Integrated and Technical-Only Instruction
Noelle Brown (2024)
ACM SIGCSE: Student Research Competition

Students' Self-Evaluations of Contextual Inquiry Techniques
Noelle Brown, Nidhi Patel, Xavier Davis, and Eliane S. Wiese (2023)
ACM EduCHI: Symposium on HCI Education

Building "Design Empathy" for People with Disabilities: an Unsolved Challenge in HCI Education
Tamanna Motahar, **Noelle Brown**, Eliane S. Wiese, and Jason Wiese (2023)
ACM EduCHI: Symposium on HCI Education

Building "Design Empathy" among HCI Students for People with Disabilities
Tamanna Motahar, **Noelle Brown**, Eliane S. Wiese, and Jason Wiese (2023)
ACM ASSETS Workshop: Envisioning the Future of Accessibility Research

TEACHING

Instructor	**Introduction to Computer Programming**, University of Utah CS 1400, Fa '24, Sp '25, Fa '25, Fa '26 **Introduction to Object-Oriented Programming**, University of Utah CS 1410, Fa '26 **Ethics in Computing**, University of Utah CS 3090, Sp '25 **Senior Capstone Design**, University of Utah CS 4000, Fa '25 **Computer Science Education Seminar**, University of Utah CS 7940, Fa '25, Fa '26 **Computer Science Internship**, University of Utah CS 4010, Su '25 **Data Science Bootcamp**, Coding Dojo, Wi '20, Sp '21, Su '21 **Data Science Immersive**, General Assembly, Wi '19, Sp '20, Su '20, Fa '20 **7th Grade Math & Algebra I**, Lesher Middle School, Fa '15, Sp '16, Fa '16, Sp '17, Fa '17, Sp '18 **Honors Program First-Year Seminar**, CSU HONR 110, Fa '12
Teaching Assistant	**Designing Human-Centered Experiences**, University of Utah CS 3540, Fa '22 **Doing Data Science**, SMU MSDS 6306, Fa '18, Sp '19
Guest Lecturer	**Ethics in Data Science**, University of Utah CS 3190, Fa '23, Fa '24, Sp '25 **Ethics in Computing**, University of Utah CS 3090, Sp '24 **Introduction to Computer Programming**, University of Utah CS 1400, Sp '24 **Designing Human-Centered Experiences**, University of Utah CS 3540, Fa '22

INVITED TALKS

2024	**Summer Training Program on Responsible Computing Education**, Northeastern University, "Ethics in the Details: Small, Frequent Doses in Technical Assignments" **Summer Training Program to Expand the AI and Data Ethics Research Community**, Northeastern University, "Computing Ethics Education: Goals and Effectiveness" **ARCS Utah April Meeting**, ARCS Foundation, "Designing and Evaluating an Integrated Approach for Teaching Ethics in Computing"
2023	**Embedded Ethics Conference**, Stanford University, "How are we Teaching Ethics?" **Bias, Ethics & Trustworthiness in Data Science and AI**, University of Utah, "Teaching Ethics in Computing Courses"

HONORS & AWARDS

2025	**Ranked among the top 15% of instructors in the College of Engineering** based on Fall 2025 student course evaluations, University of Utah **Cultural Competence in Computing (3C) Fellow**, Duke University **Nominee, Outstanding Dissertation Award**, Price College of Engineering, University of Utah
2021 - 2024	**ARCS Utah Scholar**, ARCS Foundation
2024	**Conference Travel Grant**, ACM SIGCSE
2023	**Conference Travel Grant**, Embedded Ethics, Stanford Institute for Human-Centered AI
2020	**Distinguished Faculty**, General Assembly
2013 - 2015	**Robert Noyce Scholar**, Colorado State University
2011 - 2015	**University Honors Scholar**, Colorado State University

SERVICE

Program Committee	**ACM ICER**: Conference on International Computing Education Research (2025)
Paper Reviewer	**ACM SIGCSE** (2023, 2024, 2025, 2026, 2027), **ACM TOCE** (2025, 2026), **ACM CHI** (2024, 2025), **ACM CSCW** (2024), **ACM DIS** (2024), **ACM EduCHI** (2023), **ACM Inroads** (2023)
Committee Member	**Curriculum Committee**, University of Utah (2024 - 2025) **K-12 Outreach Committee**, University of Utah (2024 - 2025)
Leadership	**President**, Graduate Student Advisory Committee, University of Utah (2021 - 2022) **New Student Facilitator**, Graduate Student Advisory Committee, University of Utah (2022 - 2023)

STUDENT MENTORSHIP

Undergraduate

2025	Markeya Gu (B.S. student, University of Utah CS, Thesis Advisor)
2022 - 2023	Kelly Wu (B.S. student, University of Utah CS)
2022	John Bovard (B.S. student, University of Utah CS)
2021 - 2022	Koriann South (B.S. student, University of Utah CS)

Graduate

2023	Sweta Ukey (M.S. student, University of Utah CS)