
Noelle Brown

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EDUCATION

- 2021 - present **Ph.D. Computing**
University of Utah
Advisor: Eliane S. Wiese
- 2019 **M.S. Data Science**
Southern Methodist University
Advisor: Jake Drew
- 2015 **B.S. Mathematics**
Colorado State University
Cum Laude

PUBLICATIONS

* Indicates student mentee

Journal Articles (peer-reviewed, archival)

- 2023 **Noelle Brown**, Benjamin Xie, Ella Sarder, Casey Fiesler, and Eliane S. Wiese. 2023. Teaching Ethics in Computing: A Systematic Literature Review of ACM Computer Science Education Publications. *ACM Trans. Comput. Educ.* 00, JA, Article 00 (December 2023), 36 pages. <https://doi.org/10.1145/3634685>.

Conference Proceedings (peer-reviewed, archival)

- 2024 Sara Nurollahian, Anna N. Rafferty, **Noelle Brown**, and Eliane S. Wiese. 2024. Growth in Knowledge of Programming Patterns: A Comparison Study of CS1 vs. CS2 Students. In *Proceedings of the 55th ACM Technical Symposium on Computer Science Education V. 1 (SIGCSE 2024), March 20–23, 2024, Portland, OR, USA*. ACM, New York, NY, USA, 7 pages.
- 2023 **Noelle Brown**, Koriann South*, Suresh Venkatasubramanian, and Eliane S. Wiese. 2023. Designing Ethically-Integrated Assignments: It's Harder Than it Looks. In *Proceedings of the 2023 ACM Conference on International Computing Education Research V.1 (ICER '23 V1), August 7–11, 2023, Chicago, IL, USA*. ACM, New York, NY, USA, 14 pages. <https://doi.org/10.1145/3568813.3600126>. Presented at ICER 2023.

2022 **Noelle Brown**, Koriann South*, and Eliane S. Wiese. 2022. The Shortest Path to Ethics in AI: An Integrated Assignment Where Human Concerns Guide Technical Decisions. In *Proceedings of the 2022 ACM Conference on International Computing Education Research V.1 (ICER 2022), August 7–10, 2022, Lugano and Virtual Event, Switzerland*. ACM, New York, NY, USA, 12 pages. <https://doi.org/10.1145/3501385.3543978>. Presented at ICER 2022.

Workshops (peer-reviewed, archival)

2023 **Noelle Brown**, Nidhi Patel, Xavier Davis, and Eliane S. Wiese. 2023. Students' Self-Evaluations of Contextual Inquiry Techniques. In *EduCHI 2023: 5th Annual Symposium on HCI Education (EduCHI '23), April 28, 2023, Hamburg, Germany*. ACM, New York, NY, USA, 5 pages. <https://doi.org/10.1145/3587399.3587411>. Presented at EduCHI 2023.

Tamanna Motahar, **Noelle Brown**, Eliane S. Wiese, and Jason Wiese. 2023. Building “Design Empathy” for People with Disabilities: an Unsolved Challenge in HCI Education. In *EduCHI 2023: 5th Annual Symposium on HCI Education (EduCHI '23), April 28, 2023, Hamburg, Germany*. ACM, New York, NY, USA, 4 pages. <https://doi.org/10.1145/3587399.3587409>.

Short Conference Publications (peer-reviewed, published in proceedings as abstracts)

2024 **Noelle Brown**. 2024. Ethics vs. Abstraction: Comparing Learning Outcomes from Ethics-Integrated and Technical-Only Instruction. In *Proceedings of the 55th ACM Technical Symposium on Computer Science Education V. 2 (SIGCSE 2024), March 20–23, 2024, Portland, OR, USA*. ACM, New York, NY, USA, 3 pages. <https://doi.org/10.1145/3626253.3635393>. Presented at SIGCSE 2024.

HONORS & AWARDS

2021 - 2024 **ARCS Utah Scholar**, ARCS Foundation

2024 **Conference Travel Grant, SIGCSE**
Association for Computing Machinery

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

TEACHING

2024 **Guest Lecturer**, Introduction to Computer Programming (U of Utah)

- 2023 **Guest Lecturer**, Ethics in Data Science (U of Utah)
- 2022 **Guest Lecturer** (3 lectures), Designing Human-Centered Experiences (U of Utah)
Teaching Mentor, Designing Human-Centered Experiences (U of Utah)
- 2020 - 2021 **Instructor**, Data Science (Coding Dojo)
- 2019 - 2020 **Instructor**, Data Science (General Assembly)
- 2018 **Teaching Assistant**, Doing Data Science (SMU)
- 2015 - 2018 **Instructor**, 7th Grade Mathematics & Algebra I (Leshar Middle School)
- 2012 **Instructor**, Honors Program First Year Seminar (CSU)

INVITED TALKS

- 2024 **ARCS Utah April Meeting, ARCS Foundation**
April 2024, "Designing and Evaluating an Integrated Approach for Teaching Ethics in Computing"
- 2023 **Bias, Ethics & Trustworthiness in Data Science and AI, University of Utah**
September 2023, "Teaching Ethics in Computing Courses"
- Embedded Ethics Conference, Stanford University**
March 2023, "How are we Teaching Ethics?"

PROFESSIONAL ACTIVITIES

- 2023 - 2024 **Committee Member**, College of Engineering Equity, Diversity, and Inclusion
Graduate Student Committee (U of Utah)
- Committee Member**, Graduate Student Advisory Committee (U of Utah)
- 2022 - 2023 **New Student Facilitator**, Graduate Student Advisory Committee (U of Utah)
- 2021 - 2022 **President**, Graduate Student Advisory Committee (U of Utah)

Professional Societies

Member, Association of Computing Machinery

Reviewing

- 2023 - 2024 SIGCSE

CHI
2024 CSCW
DIS
2023 EduCHI
ACM Inroads

STUDENT MENTORSHIP

Undergraduate

2022 - 2023 Kelly Wu
2022 John Bovard
2021 - 2022 Koriann South

Graduate (Master's)

2023 Sweta Ukey

PRESS

2023 Fall 2023. Computer Magazine. "Student Spotlight."
(<https://www.cs.utah.edu/wp-content/uploads/2024/01/COMPUTE-Fall-2023.pdf>)

Aug. 10. Amy J. Ko, Bits and Behavior. "ICER 2023 trip report."
(<https://medium.com/bits-and-behavior/icer-2023-trip-report-57f634248d06>)

Spring 2023. Compute Magazine. "Student News."
(<https://www.cs.utah.edu/wp-content/uploads/2023/05/COMPUTE-Spring-23.pdf>)

Mar. 27. University of Utah's Kahlert School of Computing. "Kahlert School Ph.D. Student Noelle Brown Presents Work on Ethics & Technology at the Embedded Ethics conference."
(<https://www.cs.utah.edu/kahlert-school-ph-d-student-noelle-brown-presents-work-on-ethics-technology-at-the-embedded-ethics-conference/>)

Feb. 14. ARCS Foundation. "Integrating Ethics in Computing Research Leads to Prestigious Switzerland Conference."
(<https://www.arcsfoundation.org/news/integrating-ethics-computing-research-leads-prestigious-switzerland-conference>)

2022 Aug. 11. Amy J. Ko, Bits and Behavior. "ICER 2022 trip report: Together again, as bits and atoms."
(<https://medium.com/bits-and-behavior/icer-2022-trip-report-together-again-as-bits-and-atoms-7ccf0440d1ec>)

Jan. 11. ARCS Foundation. "Helpful or Harmful? Walking the Fine Line of Creating Artificial Intelligence."
(<https://arcsfoundation.org/news/helpful-or-harmful-walking-fine-line-creating-artificial-intelligence>)