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# Noelle Brown

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noelleb.com

## EMPLOYMENT

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### University of Utah

2024 - present Assistant Professor, Lecturer  
Kahlert School of Computing

## EDUCATION

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- 2021 - 2024 **Ph.D. Computing**  
University of Utah  
Advisor: Eliane S. Wiese
- 2017 - 2019 **M.S. Data Science**  
Southern Methodist University  
Advisor: Jake Drew
- 2015 **B.S. Mathematics**  
Colorado State University  
Cum Laude

## PUBLICATIONS

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\* 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 Tamanna Motahar, **Noelle Brown**, Eliane S. Wiese, and Jason Wiese. 2024. Toward Building Design Empathy for People with Disabilities Using Social Media Data: A New Approach for

Novice Designers. In *Proceedings of the ACM Conference on Designing Interactive Systems (DIS 2024)*, July 1–5, 2024, Copenhagen, DK. ACM, New York, NY, USA.

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.

## TEACHING

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Fa2024 **Instructor**, Introduction to Computer Programming (U of Utah)

Sp2024 **Guest Lecturer**, Introduction to Computer Programming (U of Utah)

Fa2023 **Guest Lecturer**, Ethics in Data Science (U of Utah)

Fa2022 **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)

## HONORS & AWARDS

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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

## INVITED TALKS

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2024 **Summer Training Program on Responsible Computing Education, Northeastern University**  
July 2024

**Summer Training Program to Expand the AI and Data Ethics Research Community, Northeastern University**  
July 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

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**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

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### Undergraduate

**2022 - 2023** Kelly Wu

**2022** John Bovard

**2021 - 2022** Koriann South

### Graduate (Master's)

**2023** Sweta Ukey

## PRESS

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- 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>)