

Julie Jarzemsky | *Curriculum Vitae*

Email: julie.jarzemsky@colorado.edu **Website:** julesjarz.com **GitHub:** github.com/jjarz

Education

M.S. in Computer Science | 2023

University of Colorado Boulder; Boulder, CO

Advisor: Dr. Casey Fiesler

B.S. in Computer Science | 2013

University of Wisconsin Madison; Madison, WI

Teaching

Assistant Teaching Professor, University of Colorado-Western Colorado University Computer Science & Engineering Partnership Program

- Computer Science 3104: Algorithms | Fall 2023
- Computer Science 4448: Object-Oriented Analysis & Design | Fall 2023
- Computer Science 3002: Fundamentals of Human-Computer Interaction | Spring 2024
- Computer Science 3010: Intensive Programming Workshop | Spring 2024

Teaching Assistant, University of Colorado Boulder College of Engineering & Applied Science

- Computer Science 4318: Software Engineering Capstone | Starting Spring 2023
- Computer Science 1200: Introduction to Computational Thinking | Fall 2022
- Computer Science 3002: Fundamentals of Human-Computer Interaction | Spring 2022

IT Pathways Instructor, American YouthWorks YouthBuild Program | 2018 - 2021

- Vocational training in IT & media for 16-24 year-old students at an alternative high school

Service & Community Outreach

Current Department & Institute Service, CU/Western Partnership

- Diversity, Equity and Inclusion Committee | Fall 2023-present
- CS Curriculum Committee | Fall 2023-present
- Global Technology & Design Certificate Committee | Fall 2023-present
- Mountaineer without Borders Student Organization | Fall 2023-present

Professional Development

- Teaching Lunches and Circles, CU/Western Partnership | Fall 2023-present
- Teaching Circles, University of Colorado Boulder CS Department | Fall 2023
- College Teaching Certificate Cohort Member, University of Colorado Boulder | 2022
- WACM: student chapter of ACM's Women in Computing Member & Mentee, University of Wisconsin-Madison | 2011-2013

Mentorship

- Research Assistant Mentor, Cross-discipline CS & ME Project, CU/Western Partnership | 2023
- Peer Mentor, Computer Science Graduate School, University of Colorado Boulder | 2023

- American Heart Association STEM Goes Red Conference Mentor | 2022
- Access and Inclusion Mentor, University of Colorado Boulder | 2021 - 2022
- Tutor and Mentor, Goodwill of Central Texas (Remote) | 2022
- Industry Insight Mentor, Career Contessa (Remote) | 2016 - 2017

Outreach

- Contributor and Reviewer, Establishing collaboration with Rocky Mountain Biology Laboratory | Fall 2023-present

Leadership Positions

- Volunteer Manager, ChickTech Austin | 2017 - 2020
- Layout Editor, Emmie Music Magazine | 2010 - 2013

Volunteer Teaching

- Weekend Computer Science Club Teaching Assistant, Madison Children's Museum | 2013
- After-School Computer Science Club Volunteer Teacher, Madison School District | 2010

Research

Independent Study, Internet Rules Lab, University of Colorado Boulder | 2022

- Designed and ran a focus group study: gathered feedback on an ethics-based computer science assignment I created and brainstormed future assignment ideas alongside students.
- Creating and piloting guest lectures, in-class activities and assignments on privacy and ethical concerns when using data for machine learning for NSF EAGER: SaTC-EDU: "Integrating Cybersecurity into Artificial Intelligence Education"
- Compiling, editing and publishing the lab's open source ethics-based CS course materials
- Advised by PI Dr. Casey Fiesler

Research Assistant, Internet Rules Lab, University of Colorado Boulder | Summer 2022

- Conducted thematic analysis on results from focus group study and made improvements to the assignment
- Developed curriculum around inclusive datasets for NSF EAGER: "Broadening Participation in Computing through Transforming Media and Technologies"
- Advised by PI Dr. Casey Fiesler

Research Assistant, Knowledge & Concepts Lab, University of Wisconsin Madison | 2013

- Assisted running experiments studying human semantic memory
- Advised by PI Dr. Tim Rogers

Awards & Certificates

Graduate Teaching Excellence Award | Spring 2023

Graduate and Professional Student Government | University of Colorado Boulder

Just & Equitable Teaching Microcredential | Completing Spring 2023

Center for Teaching & Learning | University of Colorado Boulder

Professional development program in social justice and equity in the classroom

Certificate in College Teaching | Completed Fall 2022

Center for Teaching & Learning | University of Colorado Boulder

Earned through classroom teaching, participation in CTL workshops and discipline-specific activities, video teacher consultations, a faculty observation, and completing a teaching portfolio

Adobe Research Women-in-Technology Scholarship Award Winner | 2022

Scholarship recognizing outstanding female undergraduate and master's students studying artificial intelligence/machine learning, data science, computer science or mobile/web development at North American universities

Papers & Presentations

J. Jarzemsky, J. Paup & C. Fiesler. (Accepted) ““This Applies to the Real World?: Student Perspectives on Integrating Ethics into a Computer Science Assignment” in ACM SIG Computer Science Education Technical Symposium 2023

J. Jarzemsky “Integrating Ethics into Computer Science Education” Poster for Rocky Mountain Celebration of Women in Computing | 2022

J. Jarzemsky “Creating your First React App” Workshop Instructor for Advancing the Careers of Technical Women Conference | 2017

Industry Experience

Product Manager, Bohemian Innovation | 2020 - 2021

- Product management, user experience design and research, and QA for tech consultancy developing mobile and web applications for in-house projects and external clients

Software Engineer, Data.world | 2017

- Developed front-end code to run SQL queries on collaborative data science platform

Software Engineer II, Vrbo (HomeAway) | 2014 - 2017

- Full-stack web development using React, JavaScript, Java and Spring

Guest Lectures

Machine Learning & Spatial Data: What Could Go Wrong? | Fall 2022

Geography 4003: Machine Learning & Spatial Data | University of Colorado Boulder

- Discuss & lead activity about ethical issues with machine learning used on spatial data

Cybersecurity & AI with Black Mirror Writer's Room | Fall 2022

Information Science 4604: Applied Machine Learning | University of Colorado Boulder

- Discuss cybersecurity issues and lead a discussion activity using ethical speculation

Cybersecurity & Machine Learning: Overlaps & Considerations | Fall 2022

Information Science 5604: Applied Machine Learning | University of Colorado Boulder

- Discuss cybersecurity issues to lead into a coding activity about poisoning training data

Introduction to While Loops | Fall 2022

Computer Science 1200: Introduction to Computational Thinking | University of Colorado Boulder

- Introduce while loops to beginner programmers using active learning strategies

Ethics in Technology | Summer 2022

Information Science 1701: Programming for Information Science | University of Colorado Boulder

- Overview of practices for creating technology responsibly; how to think critically about impacts