Jan E. Roddy

Computer Science Master's candidate

jan.roddy.e@gmail.com

PROFESSIONAL EXPERIENCE

University of Montana, Missoula, MT —Research Assistant

FALL 2019 - PRESENT

- NSF CS10K Project: Growing Computer Science Curriculum, Diversity, and Teacher Preparedness across Montana.
- Developing a network of high-school teachers from Montana who are working towards fluency in computational thinking and programming;
- Engaging underrepresented groups;
- Assessing and evaluating our activities via educational research.

University of Montana, Missoula, MT —Teaching Assistant

FALL 2019 - PRESENT

- Fundamentals of Computer Science II
- Introduction to Programming
- Lab instructor

Eagle Ridge Iris Gardens, Billings, MT —Front End Web Developer

SUMMER 2018

Responsive Web Design and Development for small business

Women's Resource Center, Missoula, MT —Co-director

FALL 2013 - SPRING 2015

Directed student organization with a mission of progressing gender equality at the University of Montana

EDUCATION

University of Montana, Missoula, MT — *Computer Science*

SPRING 2018- PRESENT

Focuses on:

- Computer Science Education
- Software Development & Web Programming
- Human-Computer Interaction

RELATED COURSE WORK

Data Visualization, Software Science, Advanced Web Programming, Database Security, User Interface Design

SKILLS

Event Planning, Volunteer coordinating & requirement, membership building, management/leadership

AWARDS

Louise Greene and Elizabeth Smith Undergraduate Scholarship in Women's and Gender Studies for Activism

LANGUAGES and TOOLS

Python, Java, JavaScript, C, C++, PHP, HTML, CSS, Bootstrap, D3.js, Matplotlib

University of Montana, Missoula, MT — *Bachelor of Arts in Political Science & Minor Study in Women and Gender Studies*

SPRING 2012 - FALL 2015

Focus on U.S. social movements and political activism

VOLUNTEER EXPERIENCE AND EXTRA-CURRICULAR ACTIVITIES

Women In STEM at UM, Missoula MT — *Member*

SPRING 2020 - CURRENT

Group dedicated to women in underrepresented STEM fields at the University of Montana.

Big Brothers Big Sisters, Missoula MT — *Mentor*

FALL 2017 - SPRING 2018

Mentored local, elementary school student to provide support, tutoring, and homework help

Montana Wilderness Association, Missoula MT — *Data Volunteer*

 SPRING 2018

Entered data for Pledge to Vote for Public Lands and Get Out to Vote campaigns

PROJECTS

Python Modules for Math & Science in High Schools — *Instructor and Curriculum Designer*

Work with teachers to Integrate modules that emphasize Python programming and computational thinking into high school science and math classes.

Collaborative Learning Survey Tool Software —Project Manager & Front End Web Lead

Lead team of students in creating software for the Collaborative Learning Network with the purpose of collecting educational data to better school systems worldwide.

CS Democratic Rubric Creation — *Student Lead*

Computer Science Education focused research project exploring web programming curriculum and means of evaluation of student work. Lead the class in a democratic determination of student evaluation rubrics for class activities and deliverables. Analyze student engagement.