

Jan E. Roddy

Computer Science Master's candidate

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PROFESSIONAL EXPERIENCE

University of Montana, Missoula, MT — Research Assistant

FALL 2019 - PRESENT

- Growing Computer Science (CS) curriculum, diversity, and teacher preparedness across Montana
- Developing interdisciplinary, introductory CS curriculum and a network of high-school teachers from Montana who are working towards fluency in computational thinking and programming
- Assessing and evaluating activities via educational research
- Professional development workshop assistant for High School teachers interested in integrating CS into their classrooms

University of Montana, Missoula, MT — Teaching Assistant

FALL 2019 - PRESENT

- Courses: Fundamentals Computer Science II and Introduction to Programming
- Remote and in-person instruction and lecturing
- Curriculum development
- Rubric design and evaluation

EDUCATION

University of Montana, Missoula, MT — Master's of Science in Computer Science

SPRING 2018- PRESENT

Focuses on:

- Computer Science Education
- Software Development & Web Programming
- Human-Computer Interaction (UI/UX)

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

SPRING 2012 - FALL 2015

RELATED COURSEWORK

Software Design and Development, Data Visualization, Software Science, Advanced Web Programming, Database Security, User Interface Design, Data Structures, Algorithms

SKILLS

project management, software workflows, strong communicator, team oriented, competent researcher, data analysis, self-motivated, adaptable problem solver

AWARDS

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

LANGUAGES and TOOLS

Python, Java, HTML, CSS, Bootstrap, JavaScript, Unix, Github, React, C, C++, PHP, D3.js, Matplotlib, APIs

VOLUNTEER EXPERIENCE AND EXTRACURRICULAR 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

Montana Wilderness Association, Missoula, MT — *Volunteer & Member*

SPRING 2018- CURRENT

- Entered data for “Public Lands Vote Pledge” and “Get Out the Vote” campaigns
- Led a free Wilderness Walk for the Missoula and Bitterroot valley communities

Big Brothers Big Sisters, Missoula, MT — *Mentor*

FALL 2017 - SPRING 2018

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

PROJECTS

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

- Working with teachers to integrate modules that emphasize Python programming and computational thinking into high school science and courses

Utilized: Google Colab, Jupyter Notebooks, Python, Matplotlib

webdev.cs.umt.edu/~yr168230e/K12_Python_Modules/

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

- Lead a team of students in creating software for the Collaborative Learning Network with the purpose of collecting educational data to better school systems worldwide.
- Gathered software requirements
- Designed user interface components
- Executed software and usability testing
- Modeled systems
- Managed project and lead client communications
- Maintained version control with Github
- Developed front-end software

Utilized: React, Github, React Testing Library, Jest, Puppeteer

<https://collaborative-learning.github.io/documentation/>