

Frankie Nuffer-Rodriguez

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EDUCATION

Bachelor of Science in Applied Mathematics

May 2025

University of Colorado Boulder

Minors in Computer Science and Engineering Management

EXPERIENCE

University of Colorado Boulder

Course Assistant, *Department of Applied Mathematics*

Jan 2025 - Present

- Assist with APPM 3650 Algorithms and Data Structures in Python
- Host weekly office hours to help students learn course material such as data structures, algorithms, and asymptotic complexity with an emphasis on applied math topics
- Grade and provide feedback on bi-weekly quizzes, weekly homeworks, and two exams

United States Bureau of Reclamation

Technical Service Center Summer Intern, *Applied Hydrology 2*

May 2024 - Present

- 11-week summer internship working under a senior engineer
- Support the development of construction flood loadings for a dam construction project
- Calibrate and improve CalSim Hydro, to help the CalSim model for the California Central Valley Project

University of Colorado Boulder

Resident Advisor, *Residence Life*

Dec 2021 - Present

- Mentor and advise first-year and upperclassman students, while monitoring community safety
- Mediate conflict between roommates and suitemates
- Create, market, and lead student centered hall events to promote personal, academic, social justice, and community responsibility

Senior Resident Advisor, *Residence Life*

Aug 2023 - May 2024

- Elevated leadership position from the Resident Advisor role
- Worked directly with the Hall Director to create and maintain a cohesive staff and building dynamic
- Managed the scheduling of Resident Advisors' duties

University of Colorado Boulder

Teaching Assistant, *Department of Applied Mathematics*

Aug 2024 - Dec 2024

- Assisted with APPM 1650 Python for Math and Data Science Applications
- Led two weekly recitation sections with 14-20 students each and hosted 2 hours of weekly office hours
- Assisted students with the basics of programming and Python tools such as numpy, pyplot, and Pandas
- Graded and provided feedback on weekly quizzes, homeworks, and recitation exercises and three exams

SKILLS

- Programming languages: Proficient in C, C++, Python, R, SQL
- Software: Proficient in Tableau, Mathematica