BRENDAN STEWART

Lakewood, CO USA

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EDUCATION

Colorado School of Mines *2020 - 2023*
B.S. Applied Computational Math, Cumulative GPA: 3.765

Red Rocks Community College *2017 - 2020*
Transfer Student, Overall GPA: 4.000

WORK EXPERIENCE

Undergraduate Research Assistant *Summer 2022*

Developed error prediction methods in water treatment system using R for data analysis, with focus on exploratory analysis and visualization. Produced meaningful visuals and formatted data for stakeholder communication. (LaTeX, R).

Math Tutor *2019 - Current*

Freelance tutor working with students of diverse backgrounds and experience levels.

PROJECTS

The Takens-Bogdanov Bifurcation *Fall 2022*

Explored a codimension-two bifurcation in conservative physical systems. Created animations using MATLAB.

Drag in Network-Based Epidemic Simulation *Spring 2021*

Analysed contagion spread on small-world networks. Identified a 'drag' factor and quantified errors in approximation.

Steganography in Audio *Summer 2021*

Developed a tool for hiding and recovering text or audio in larger files using least-significant bit methods. (C++)

TECHNICAL SKILLS

Programming languages: MATLAB, R, SQL, C++
Software: LaTeX, Git

INTERESTS

Professional Epidemiology, Water Data Analysis, Population Modelling
Personal Baking, Backpacking, Constructed Languages, Speed Cubing