(208) 585-7373 coltoncgrainger@gmail.com

OBJECTIVE

To complete an M.S. in Applied and Computational Mathematics at CSU.

EDUCATION

B.S. in Mathematics-Physics

May 2016

The College of Idaho, Caldwell, ID

GPA: 3.49

• Senior Study: Galois Theory for Differential Equations

· Advised by Dr. Jonny Comes.

RESEARCH INTERESTS

Multiscale Analysis and Computation to approach complex systems (e.g., aquifers). Numerical Methods to model fluid flow and contaminant diffusion in porous media.

EXPERIENCE

Refugee Medical Care Intern

August 2016 - Present

YMCA International Services, Houston, TX

- Managed 60 refugee medical cases in a team of 3 staff.
- Advocated for clients at clinics, food pantries and emergency shelters.
- Scheduled medical appointments, transportation and interpretation.

Course Grader & Tutor

September 2015 – December 2015

The College of Idaho

- Graded weekly assignments for a section of 25 general physics students.
- Tutored 5 calculus students in weekly one-on-one sessions.

Dishwasher & Server

Summers 2011 – 2013, Fall 2015

The Griddle, Meridian, ID

• Served food and kept clean a 100 m² commercial kitchen.

COMMUNITY INVOLVEMENT

Service Corps Fellow

August 2016 – Present

Texas Episcopal Service Corps, Houston, TX

- · Lived in an intentional community with 2 other fellows.
- Committed to 1,700 hours of service in 11 months.

WWOOF Ranch-Hand

Summer 2016

Sonnwendhof Biofarm, Möckmühl, Deutschland

- Built relationships with American, German and Italian WWOOFers.
- Pastured sheep and planted a sustainable garden.

SKILLS (rated out of 5)

Languages

Programming

• **German** (3), English (5)

• **Python** (3), C++ (2)

Computer Algebra

Algebra Operating

• SageMath (3), Mathematica (2)

• **GNU** (3), macOS (4), Windows (4)

HONORS

Heritage Scholarship for academic merit

2012 - 2016

Top Putnam Score among College of Idaho students **Varsity Skier** on The College of Idaho Ski Team

2013, 2015 2014, 2016