

Stefan Nelson

ANALYST · PROBLEM SOLVER · EDUCATOR

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Education

Minnesota State University Moorhead (MSUM)

Moorhead, MN

BACHELOR OF SCIENCE IN **COMPUTATIONAL MATHEMATICS** - SUMMA CUM LAUDE

August 2014 - May 2018

- Minors in **Statistics** and **Astronomy**.
- Selected Coursework: Data Structures, Numerical Analysis, Statistics, Computational Physics, Linux Programming/Development Tools.

Selected Work Experience

Coconino Community College

Flagstaff, AZ

DEVELOPMENTAL MATHEMATICS FACULTY

August 2019 - Present

- Fall 2019 - Instructor of record for two sections of MAT 091: Beginning Algebra.

AmeriCorps VISTA, W.F. Killip Elementary School

Flagstaff, AZ

STEM EDUCATION INTEGRATOR

April 2019 - Present

- Building capacity in Killip's STEM Lab by working on several projects. These include an improved inventory check in/check out system using Microsoft Access for lab materials, building problem banks for more interactive assessments in Synergy, and designing a system for other AmeriCorps VISTAs to track their time, projects, and created documents accurately through Google Sheets and R.
- Coordinating the Girls Teaching Girls and Evergreens after-school programs which include developing curriculum, training and coordinating 10-15 volunteers, and direct instruction.
- Assisting the principal and STEM coordinator in data collection and analysis on project impacts, developing scripts in R for long-term monitoring and sustainability. Have currently written three grant proposals that use this data.

Department of Mathematics, Northern Arizona University

Flagstaff, AZ

INSTRUCTOR

August 2018 - December 2018

- Instructor of record for two sections of MAT 114: Quantitative Reasoning (≈ 72 students).
- Tasks include coordinating with fellow instructors, prepping for lectures, running student activities and lecturing the material, answering student emails, and performing administrative tasks in Excel, Blackboard Learn, and WeBWork for online assignments and grading.

Peak Performance Bridge Program, Northern Arizona University

Flagstaff, AZ

GRADUATE TEAM SUPPORT

May 2018 - August 2018

- Performed administrative tasks on Blackboard and MyLabsPlus in a remote setting for 6 math coaches to tutor incoming freshmen (≈ 72 total) on placement test topics. Tasks included payroll, providing feedback for tutoring sessions via email and video conference calls, and implementing student assignments.
- Tutored 7 low-income and/or first generation college bound students with the Upward Bound program using ALEKS.

Department of Mathematics, Iowa State University

Ames, IA

RESEARCH EXPERIENCE FOR UNDERGRADUATES (REU) INTERNSHIP

June 2017 - August 2017

- Worked with the Modeling and Computation group to research/implement new methods to model shockwaves using partial differential equations.
- Implemented limiters using Python and presented results at the International Linear Algebra Society Conference (2017), the Joint Mathematics Meetings (2018), and MSUM's Student Academic Conference (2018). Paper in editing process to be submitted to the *Advances in Computational Mathematics* Journal (see <https://arxiv.org/abs/1806.06756>).

Technical Skills

- Python, R, C++
- Kanban project management with Trello
- Public speaking using Microsoft and Beamer presentation software
- Version control with git
- GNU/Linux
- Data Management/visualization using numpy, pandas, matplotlib, seaborn, and tidyverse packages