Natasha Graham

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Education

- *Kansas State University*   Aug 2014 - Dec 2018
  - BS Physics
  - BS Mathematics
  - German Minor
  - Computer Science Minor

Skills

- Programming: C#, Python, MATLAB, Java, C/C++
- Microsoft Office Word, Excel, PowerPoint
- Windows, Linux

Work Experience

- **Graduate Research Assistant**   Aug 2020 – Dec 2021
  - University of Alaska Fairbanks, Department of Geophysics
  - Translated MATLAB code into Python
  - Mentored other GRAs in git, Python
  - Data Processing on Seismic Data
- **Driver**   Oct 2019 – Apr 2020
  - First Student *Olathe, KS*
  - Drove a Special Education bus, taking students to and from school
  - Took students on trips during school hours
- **Student Employee**   Oct 2018 – Dec 2018
  - Mathematics Department, Kansas State University *Manhattan, KS*
  - Graded and provided on student homework for math classes
  - Created keys for each assignment

Projects

- **Wave on Fixed-Endpoint String**
  - https://github.com/nlgraham/EM2Project
  - Simulates transverse wave moving from one medium to another, using a Drawing tool to show it graphically
  - Makes use of C# and Windows Forms
  - Implemented wave propagation equation from "Computational Physics, Second Edition" by Giordano and Nakanishi
- **Pulling Tilt Signals from Seismic Data**
  - https://nlgraham.github.io/
  - Reads in seismic data, which is run through a filtering process of removing the mean, integrating, and a low-pass filter, then plots stacked results
  - Made in Python 3
  - Parts converted from MATLAB and uses obspy, numpy, and scipy modules

Volunteer Work and Extracurricular Activities

- Sigma Alpha Iota, Kappa Upsilon Chapter at KSU
- Kansas 4-H Geology Leader in Johnson County and Action Team Member
- Five Year Member of Kansas State University Marching Band