Luke Russell

Portland, Oregon

📱 206-920-4771 | ✉ luke.galbraith.russell@gmail.com | 🏠 lukegalbraithrussell.github.io

Education

Bachelor of Arts, Physics   *August 2014 - May 2018*
Willamette University   *Salem, Oregon*

Work Experience

Physics Teaching Assistant   *Jan 2017 - May 2018*
Willamette University Department of Physics   *Salem, Oregon*
- Trained and assisted 40 students in following technical procedure
- Documented and maintained student lab information using G Suite
- Tutored students on physics and coding concepts
- Revised and edited lab curriculum documentation and manuals

International Peer Coach: Lead Team   *Dec 2016 - Apr 2018*
Tokyo International University of America   *Salem, Oregon*
- Led 10 student employees in coordinating the arrival of 130 Japanese students to the US
- Trained student employees in program procedure and intercultural communication
- Entered and organized student educational data
- Designed procedural documentation for student employees to follow

International Peer Coach   *Dec 2015 - Apr 2016*
Tokyo International University of America   *Salem, Oregon*
- Coordinated semester-long orientation program for 130 Japanese students
- Led weekly advising meetings for group of 20 Japanese students
- Managed procedural documents and billing charges for program
- Presented concepts of exchange program to general student population

Projects

Photometry of Celestial Fireballs

`Jupyter` `Linux` `Arch Linux` `Python` `Matplotlib` `NumPy` `OpenCV` `Pandas` `SciPy` `Tkinter`

- Created software to extract and analyze video data of meteor events
- Troubleshooted errors as software was tested in new situations
- Designed graphic user interface to easily run scripts and view results
- Compiled collection of 12 meteor events and their photometric details
- Presented data analysis to school with 3 talks and 1 poster presentation

Clustering USA Sociopolitical Regions

`Jupyter` `Python` `NumPy` `Pandas` `Plotly` `scikit-learn`

- Collected and organized data from election results, census reports, and polls
- Used data to group states using K-means clustering algorithm
- Created interactive USA state map displaying identified clusters

Technologies

Operating Systems	`Linux` `Arch Linux` `Ubuntu` `macOS` `Windows`
Programming	`Python` `Matplotlib` `NumPy` `OpenCV` `Pandas` `SciPy` `scikit-learn` `SQL` `MySQL/MariaDB`
Software	`Adobe InDesign` `G Suite` `Git` `Jupyter` `LaTeX` `Microsoft Office` `Power BI` `Vim`

Skills

Administrative	`Document Creation` `Intercultural Communication` `Project Management` `Team Leadership`
Data	`Data Analysis` `Data Collection` `Data Entry` `Data Visualization` `Database Management`
Technical	`Computer Vision` `Machine Learning` `Statistical Analysis` `Technical Writing`