

# Luke Russell

Renton, WA | Relocating to New York, NY

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## EDUCATION

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### BACHELOR OF ARTS, PHYSICS

Willamette University | Salem, OR

Expected May 2018

#### Senior Thesis: Photometry of Celestial Fireballs

- Year-long research on automating the modeling and analyzing of meteor data
- Analysis script and graphic user interface created using Python
- Presented data analysis to school with 3 talks and 1 poster presentation

#### Relevant Classes

- **Advanced Data Analysis and Simulation**
  - Focused on data collection and statistical analysis using Python
  - Culminated in presentation on independent project concerning modeling nonlinear systems
- **Nonlinear Dynamics**
  - Course involved modeling nonlinear dynamics and chaos using Python
  - Final test involved presenting models as plots and animations

## WORK EXPERIENCE

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### PHYSICS TEACHING ASSISTANT

Willamette University | Salem, OR

Jan 2017 - May 2018

- Instructed 40 students in concepts ranging from astronomy to electrodynamics
- Participated in overhaul of physics lab curriculum based on student feedback
- Graded lab projects and input grades into database on weekly basis

### INTERNATIONAL PEER COACH

Tokyo International University of America | Salem, OR

Jan 2016 - April 2018

- Coordinated the arrival of 130 Japanese students to the United States
- Helped orient students to city with daily cultural activities and excursions

## SKILLS

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### PYTHON

NumPy • SciPy • Pandas • Matplotlib • Seaborn • OpenCV • Tkinter

Used for scientific research, multiple classes, and independent study

### GIT

Used for version control of research scripts, personal website, and system configuration files

### LINUX

Maintains own Archlinux system as personal computer

### SQL

Completed online course, familiar with syntax and concepts

### EXCEL

Knowledge of essentials, including pivot tables and macros