Zeeve **Rogoszinski**

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Skills

Programming Languages (proficient): Python, C, LaTeX, shell scripting
Programming Languages (novice): HTML/CSS
Tools & Software: Unix/Linux, Slurm, Numpy, Matplotlib, Jupyter Notebook, Microsoft Office, Git
Spoken Languages: English (native), Hebrew (advanced)

Experience

University of Maryland *College Park, MD*
Ann G. Wylie Dissertation Fellow/NASA Earth and Space Science Fellow/Graduate Student *2014-present*

- Responsible for model development, execution, and visualization of C based simulations for the evolution of planetary spin-states via spin-orbit resonances, gas accretion, and collisions.
- Developed Python post-processing tools for data aggregation, visualization, and statistical analysis.
- Repurposed an N-body simulator using a Python wrapper to calculate the evolution of satellite orbits after a series of collisions.
- Published a novel explanation for Uranus's and Neptune's tilts that both reduces the mass and number of subsequent impacts, and preserves the planets' spin periods.
- Presented my findings at several national and divisional meetings in the US and abroad.

NASA Goddard Space Flight Center *Greenbelt, MD*
Summer Intern *2014*

- Developed a Python image processing and analysis script to study cosmic ray origins in supernova remnants.

Vassar College *Poughkeepsie, NY*
Senior Thesis *2013-2014*

- Processed and analyzed several elliptical galaxies to find correlations between structure and star formation rates.

Williams College *Williamstown, MA*
Keck Northeast Astronomy Consortium Summer Research Fellow *2013*

- Processed and analyzed raw images from the 2012 transit of Venus to explain the black-drop effect.

Education

University of Maryland *College Park, MD*
Ph.D. in Astronomy *Aug 2020 (expected)*
Advisor: Dr. Douglas Hamilton

University of Maryland *College Park, MD*
M.S. in Astronomy *Dec 2016*

Vassar College *Poughkeepsie, NY*
B.A. in Astronomy & Physics *Jun 2010*
Senior Thesis Advisor: Dr. Debra Elmegreen