

Zeeve Rogoszinski

✉ zero@umd.edu | 📍 College Park, MD 20742 | 🌐 <https://www.astro.umd.edu/~zero/>

Skills

Programming Languages (proficient): Python, C, L^AT_EX, Mathematica, 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. Reprints and additional information can be found on my website.
- Presented my findings at several national and divisional meetings in the US and abroad.
- Volunteered with the GRAD-MAP program by assisting with outreach, helping to plan the Winter Workshop, and maintaining the website. For more information, visit: www.umdgradmap.org

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.

Teaching

Astronomy 101 TA

U Maryland

SUPERVISORS: GRACE DEMING, DR. DOUGLAS HAMILTON, DR. LEE MUNDY, DR. ELIZA KEMPTON

2014-2016, Fall 2019

Academic Astronomy Intern

Vassar College

SUPERVISOR: DR. DEBRA ELMEGREEN

2013-2014

Teaching Assistant

Williams College Planetarium

SUPERVISOR: DR. JAY PASACHOFF

Summer 2013

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 (GRADUATED WITH DEPARTMENTAL AND GENERAL HONORS)

Jun 2014

Senior Thesis Advisor: Dr. Debra Elmegreen