Zeeve **Rogoszinski**

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Education

University of Maryland — *College Park, MD*

PH.D. IN ASTRONOMY — *Dec 2020*

Advisor: Dr. Douglas Hamilton

M.S. IN ASTRONOMY — *Dec 2016*

Vassar College — *Poughkeepsie, NY*

B.A. IN ASTRONOMY & PHYSICS — *Jun 2014*

Senior Thesis Advisor: Dr. Debra Elmegreen

Skills

Programming Languages (proficient): Python, C, LaTeX, shell scripting
Programming Languages (novice): HTML/CSS
Tools & Software: HDF5, Numpy, Matplotlib, Pandas, Scikit-learn, SciPy, Seaborn Git, Jupyter Notebook, Microsoft Office, Slurm, Unix/Linux
Spoken Languages: English (native), Hebrew (advanced)

Work Experience

Center for Naval Analyses — *Arlington, VA*

RESEARCH ANALYST — *Oct 2020 - present*

Fellowships & Awards

2020	**Ann G. Wylie Dissertation Fellowship**,	*U Maryland*
2016 - 2019	**NASA Earth and Space Science Fellowship**, 28 out of 180 selected	*NASA*
2016	**Hartmann Student Travel Grant**,	*AAS*
2014	**Departmental Honors in Astronomy**,	*Vassar College*
2014	**Departmental Honors in Physics**,	*Vassar College*
2014	**General Honors**,	*Vassar College*
2014	**Sigma Xi**,	
2013	**Ethel Hickox Pollard Memorial Physics Award**,	*Vassar College*
2013	**Janet Murray '31 Memorial Scholarship**,	*Vassar College*

Publications

Tilting Uranus via the migration of an ancient satellite

SAILLENFEST M., ROGOSZINSKI Z., LARI G., BAILLIE K., BOUE G., CRIDA A., LAINEY V., 2022, A&A. ARXIV:2209.10590

Tilting Uranus: Collisions versus Spin–Orbit Resonance

ROGOSZINSKI Z., HAMILTON D. P., 2021, PSJ. ARXIV:2004.14913

The Tilts and Spins of Planets and Moons

ROGOSZINSKI Z., 2020, PHD THESIS

The Brute-Force Search for Planet Nine

LAWRENCE S., ROGOSZINSKI Z., 2020. ARXIV:2004.14980

Tilting Ice Giants with a Spin-Orbit Resonance

ROGOSZINSKI Z., HAMILTON D. P., 2020, APJ. ARXIV:1908.10969

Presentations

Tilting Ice Giants with Circumplanetary Disks — *Division of Dynamical Astronomy*
Rogoszinski, Z., Hamilton D. P. — *Jun 2019*

Using collisions and resonances to tilting Uranus — *American Astronomical Society*
Rogoszinski, Z., Hamilton D. P. — *Jan 2018*

Continuing the investigation to tilting Uranus with a secular spin-orbit resonance — *Division of Planetary Science*
Rogoszinski, Z., Hamilton D. P. — *Oct 2017*

Tilting Uranus without a Collision — *AstroCon DC*
Rogoszinski, Z., Hamilton D. P. — *Jul 2017*

Posters

Can The Spin Rates of Irregular Satellites Provide Constraints To Their Formation Histories? — *EPSC-DPS Joint Meeting*
Rogoszinski, Z., Hamilton D. P. — *Sept 2019*

How do collisions shape the orbits of irregular satellites? — *Division of Planetary Science*
Rogoszinski, Z., Hamilton D. P. — *Oct 2018*

Why is it so difficult to tilt Uranus? — *Division of Dynamical Astronomy*
Rogoszinski, Z., Hamilton D. P. — *Apr 2018*

Tilting Uranus without a Collision — *Division of Planetary Science*
Rogoszinski, Z., Hamilton D. P. — *Oct 2016*

Constraining Cosmic Ray Origins Through Spectral Radio Breaks In Supernova Remnants — *American Astronomical Society*
Rogoszinski, Z., Hewitt, J. W. — *Jan 2015*
NASA GSFC Summer Internship

Observations of the Black-Drop Effect at the 2012 Transit of Venus — *American Astronomical Society*
Rogoszinski, Z., Pasachoff, J. M. — *Jan 2014*
Keck Northeast Astronomy Consortium Summer Research Fellow

Services & Internships

NASA ROSES Reviewer — *NASA*
Peer reviewer for NASA grant proposals. — *2022*

Guest Lecturer — *Academy for Jewish Religion*
I gave two lectures on some of the fundamentals of astronomy for a science and religion course. — *2022*

GRAD-MAP Member — *U Maryland*
Volunteered with the GRAD-MAP program by assisting with outreach, and helping to plan the Winter Workshop. GRAD-MAP is a diversity initiative and graduate student led organization by the Astronomy and Physics departments dedicated to sustaining ties between UMD and other minority serving institutions. For more information, visit: www.umdgradmap.org — *2015-2018*

Executive Secretary — *NASA*
A secretary position at a NASA peer review panel for annual proposals. These are usually reserved for early scientists to observe and learn from the proposal decision process. — *2017, 2018*

NASA GSFC Summer Internship — *NASA*
Developed a Python image processing and analysis script to study cosmic ray origins in supernova remnants with Dr. John Hewitt. — *2014*

Keck Northeast Astronomy Consortium Summer Research Fellow — *Williams College*

Analyzed 2012 transit of Venus images to explain the black-drop effect with Dr. Jay Pasachoff. — *2013*

Observatory Assistant — *Vassar College*

Maintained and operated the school's observatory. — *2010-2012*

Teaching

Astronomy 101 TA — *U Maryland*

Supervisor: Dr. Eliza Kempton — *Fall 2019*

Astronomy 101 TA — *U Maryland*

Supervisors: Grace Deming, Dr. Douglas Hamilton, Dr. Lee Mundy — *2014-2016*

Academic Astronomy Intern — *Vassar College*

Supervisor: Dr. Debra Elmegreen — *2013-2014*

Teaching Assistant — *Williams College Planetarium*

Supervisor: Dr. Jay Pasachoff — *Summer 2013*