# Zeeve **Rogoszinski**

zero@umd.edu | College Park, MD 20742 | https://www.astro.umd.edu/~zero/

## Education

**University of Maryland** — *College Park, MD*

**Ph.D. in Astronomy**, Advisor: Douglas Hamilton, Thesis: "The Tilts and Spins of Planets and Moons" — *Aug 2020 (expected)*

**M.S. in Astronomy**, Advisor: Douglas Hamilton, Thesis: "Tilting Uranus Without a Collision" — *Dec 2016*

**Vassar College** — *Poughkeepsie, NY*

**B.A. in Astronomy & Physics**, Advisor: Debra Elmegreen, Thesis: "Structure and Activity in Hubble Deep Field Elliptical Galaxies" — *Jun 2014*

## 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

**The Brute-Force Search for Planet Nine**

Lawrence, S., Rogoszinski, Z., 2020, arXiv:2004.14980

**Tilting Uranus: Collisions vs. Spin-Orbit Resonance**

Rogoszinski, Z., Hamilton D. P., 2020, under review, arXiv:2004.14913

**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?**
Rogoszinski, Z., Hamilton D. P.
*Division of Dynamical Astronomy*
*Apr 2018*

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

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

**Observations of the Black-Drop Effect at the 2012 Transit of Venus**
Rogoszinski, Z., Pasachoff, J. M.
*American Astronomical Society*
*Jan 2014*

## Services

**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*

**Observatory Assistant**
*Vassar College*
Maintained and operated the school's observatory.
*2010-2012*

## 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*

## Selected News Articles

**If 'Planet Nine' is a primordial black hole, could we detect it with a fleet of tiny spacecraft?**
*Physics World*
by Marric Stephens
*May 2020*

**Here's Why We Must Send 100 Spacecraft To The Edge Of The Solar System**
*Forbes*
by Jamie Carter
*May 2020*

**A New Approach to Tilting Uranus**
*AAS Nova*
by Will Saunders
*March 2020*