

## CURRICULUM VITAE

of

Marshall John Styczinski

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### PERSONAL

**Information:** US Citizen, born August 1988 in Dublin, California.

**Position:** Doctoral Candidate at University of Washington.

**Interests:** Space physics and astrobiology research; science communication and public outreach

**Website:** <http://students.washington.edu/mjstyczi/>

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### EDUCATION

**09/2012 – present** University of Washington

In progress: Doctor of Philosophy, Physics

Complete: Graduate Certificate, Astrobiology

Degree conferred: Master of Science, Physics

**09/2006 – 06/2010** University of California, Davis

Degree conferred: Bachelor of Science with Highest Honors, Physics

Significant works: “On the Return of HP West: The Revival and Restoration of a Hewlett-Packard 5950A Photoelectron Spectrometer” ([Undergraduate Honors Thesis](#), May 2010)

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### HONORS AND AWARDS

**09/2018 – present** [NASA Earth and Space Science Fellowship](#)

**04/2019 – 09/2019** Visiting Scholar, University of Oregon Planetary Science Group

**08/2018 – 09/2018** Visiting Scholar, University of Melbourne Astrophysics Group

**06/2018 – 08/2018** [JPL Space Grant Summer Internship](#)

**03/2017 – present** Science Communication Fellow, [Pacific Science Center](#)

**06/2010** Bachelor of Science with Highest Honors from UC Davis

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### AFFILIATIONS

NASA Jet Propulsion Laboratory, division 3225 (affiliate): Astrobiology and planetary chemistry

Board of Directors, “Engage” [science communication program](#)

[University of Washington Astrobiology](#)

[American Physical Society](#)

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### SELECTED PRESENTATIONS

**08/2018** [University of Melbourne Astrophysics Colloquium](#)

**12/2017** [Pacific Science Center’s “Science in the City”](#)

**05/2016** [Town Hall Theater’s “UW Science Now” speaker series](#)

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### PROFESSIONAL QUALIFICATIONS

Extensive experience with UNIX/bash, L<sup>A</sup>T<sub>E</sub>X, Fortran, C++, Excel, Python, Matlab, and LabVIEW

6 years formal experience teaching university physics, including TA training and exam writing

## RESEARCH POSITIONS

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- 08/2012 – present** *Doctoral Candidate*, University of Washington  
Research focus: Magnetic sounding of Jupiter's moons  
Magnetospheric plasma modeling  
Advisor: Research Associate Professor Erika Harnett
- 01/2014 – 03/2017** *Graduate Student*, University of Washington  
Past research: Improving the efficiency of conceptual instruction in- and out-of-class  
Student understanding of Gauss's law  
Interdisciplinary learning in science courses  
Advisor: Professor Paula R. L. Heron and Peter S. Shaffer
- 04/2011 – 07/2012** *Junior Specialist*, University of California, Davis  
Duties: Design, build, test, and analyze cryogenic bubble detection experiment (Tripathi);  
Develop and implement software for analyzing irradiated magnets,  
assess radiation damage of magnets used in Linear Collider R&D (Pellett);  
Supervisor(s): Professor S. Mani Tripathi, Professor Emeritus David Pellett
- 07/2010 – 04/2011** *Development Technician*, University of California, Davis  
Duties: Restore, repair, and improve indium evaporative deposition system (Tripathi);  
Construct sensitive Double Chooz neutrino detector in international team (Svoboda);  
Train and mentor undergraduate laboratory assistants  
with X-ray photoemission spectrometer (Fadley)  
Supervisor(s): Professor S. Mani Tripathi, Professor Robert Svoboda, Distinguished Professor  
Charles S. Fadley
- 05/2008 – 06/2010** *Undergraduate Research Assistant*, University of California, Davis  
Duties: Restore and optimize X-ray photoemission spectrometer system, analyze Si/Mo  
multilayer crystal native oxide properties  
Supervisor(s): Distinguished Professor Charles S. Fadley

## TEACHING EXPERIENCE

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- 09/2012 – 06/2018** *Graduate Teaching Assistant*, University of Washington  
Courses: Introductory physics tutorials and laboratories, advanced electromagnetism tutorials,  
and introductory courses in astrobiology, planetary science, and space science  
Structure: Sole or co-instructor leading discussions in 24–32 student classrooms  
Note: Most terms as head TA, leading training sessions for other TAs, writing exams,  
and course administration (including curriculum writing and revisions)
- 09/2012 – present** *Physics Study Center Staff*, University of Washington  
Courses: Introductory and advanced physics  
Structure: Individual homework and conceptual guidance
- 10/2007 – 06/2012** *Physics Club Volunteer Tutor*, University of California, Davis  
Courses: Introductory physics and calculus  
Structure: Individual homework and conceptual guidance