

CURRICULUM VITAE

of
Marshall John Styczinski

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/>

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)

HONORS AND AWARDS

[NASA Earth and Space Science Fellowship](#)
[JPL Space Grant Summer Internship](#), sponsored by [Washington NASA Space Grant Consortium](#)
Science Communication Fellow, [Pacific Science Center](#)
Bachelor of Science with Highest Honors from UC Davis

AFFILIATIONS

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

PROFESSIONAL QUALIFICATIONS

Extensive experience with UNIX/bash, L^AT_EX, Fortran, C++, Excel, and LabVIEW
Moderate experience with Python, Adobe Illustrator, Javascript, ROOT, C, HTML, and Matlab
6 years formal experience teaching university physics, including TA training and exam writing

RESEARCH POSITIONS

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

09/2012 – present *Graduate Teaching Assistant*, University of Washington
 Courses: Introductory physics tutorials and laboratories, advanced electromagnetism tutorials
 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

09/2004 – 06/2006 *Peer Tutor*, Portola Jr.-Sr. High School
 Courses: Introductory physics, 7–8th-grade science and math
 Structure: Individual homework and conceptual guidance