

CURRICULUM VITAE

of
Marshall John Styczinski

PERSONAL

Information: US Citizen, born August 19, 1988 in Dublin, California.

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

Field: Physics

Complete: Graduate Certificate

Field: Astrobiology

Degree conferred: Master of Science

Field: Physics

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

Degree conferred: Bachelor of Science with Highest Honors

Field: 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)

AFFILIATIONS

Science Communication Fellow, [Pacific Science Center](#)

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

[University of Washington Astrobiology](#)

[American Association of Physics Teachers](#)

[American Physical Society](#)

PROFESSIONAL QUALIFICATIONS

Extensive experience with UNIX, \LaTeX , C++, Excel, LabVIEW, and FileMaker database software

Substantial experience with Fortran, Python, Adobe Illustrator, Javascript, ROOT, C, HTML

Laboratory Safety Training, UW Environmental Health and Safety Department

General Employee Radiation Training, Lawrence Berkeley National Laboratory

RESEARCH POSITIONS

08/2012 – present *Graduate Student*, 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 and administering course
 (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