email: mjstyczi@uw.edu

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, LaTeX, 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 – 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

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