

Erin Grand

- CONTACT** Erin Grand *Mobile:* +1-908-432-5301
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- PROFILE** Professional experience in teaching and research, along with a strong analytic mindset, looking to work in education technology research to help provide students with efficient technology.
- EDUCATION** Columbia University, New York, NY
M.S., Data Science, Degree Expected: May 2016
Relevant courses: Algorithms for Data Science, Statistical Inference, Data Visualization, Machine Learning
University of Maryland, College Park, MD
M.S., Astronomy, December 2013
B.S., Astronomy and Physics, May 2011
College Park Scholars Program Fall 2007 to Spring 2009
- COMPUTER SKILLS** Computer Programming and Numerical Analysis:
UNIX shell scripting, HTML, JavaScript, Python, R, IDL, MATLAB
Desktop Editing and Productivity Software:
T_EX (L^AT_EX, B^IB_TE_X)
Microsoft Office, OpenOffice.org, iWork, Google Docs
GIMP, Adobe Creative Suite
- TEACHING EXPERIENCE** University of Maryland, College Park, MD
Teaching Assistant September 2013 to May 2014
- Fall Semester: The Science and Fiction of Planetary Science; Spring Semester: Astronomy and the Media
 - Developed discussion activities, motivated group discussion and peer learning, led class discussions, incorporated technology resources such as educational online videos, graded assignments.
 - Received award for Excellence and Innovation in Undergraduate Teaching in the I-Series Courses
- Teaching Assistant* September 2012 to May 2013
- Fall Semester: General Astronomy; Spring Semester: Astronomy and the Media
 - Developed class activities, lectured, led class discussions, assisted with science projects, graded assignments.

Teaching Assistant

September 2010 to May 2011

- Fall Semester: Introductory Astronomy; Spring Semester: Physics Lab for Education Majors
- Developed class lectures and materials, led class discussion, graded assignments.

**TECH
EXPERIENCE**

NASA Goddard Space Flight Center, Greenbelt, MD

Data Librarian

March 2014 to Present

- Reformatting Earth and space science data images to be compatible with WMS tile servers. Products will be used as part of the educational Science on a Sphere and NASA Earth and Space Observatory programs. These programs allows users to complete analysis on real science images.
- Designed traveling Hubble Space Telescope exhibits' new iPad kiosks using HTML, JavaScript and KioskPro.

**RESEARCH
EXPERIENCE**

University of Maryland, College Park, MD

Graduate Student

August 2011 to Aug 2014

- Researched the formation mechanisms of molecular pillars, such as the Eagle nebula's Pillars of Creation. Compared CARMA observations of high density gas to model predictions.

NASA Goddard Space Flight Center, Greenbelt, MD

Summer Intern

June 2010 to August 2010

- Developed a set of bash shell scripts to assist in manually setting the aspect correction of images taken with the Swift satellite.

Summer Intern

June 2009 to August 2009

- Performed analysis on raw data to produce a three-colored ultraviolet image of the Andromeda galaxy. Image has been featured on Astronomy Picture of the Day twice since publication.

SERVICE

University of Maryland Observatory, College Park, MD

Mentor

January 2009 to August 2009

- Mentored middle school students in astrophysics projects.
- Taught basics of observational astronomy basics, led group in telescope use.

Desmoid Tumor Research Foundation, Suffern, NY

Assistant Webmaster

June 2005 to August 2008

- Maintained the website.
- Created and organized donor information into a comprehensive database.

HOBBIES

Educational Videos, Singing, Board Games, Royal Scottish Country Dancing, Photography