

Tyler Joseph Stern

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Creative Portfolio: <http://tinyurl.com/ofjdgl>

Education and Honors

Emory University, Atlanta, GA

Cumulative GPA: 3.92, Major GPA: 3.90

Bachelors of Science in Applied Physics, May 2016

Dean's List (4 semesters), Prentice Miller Scholar

Computer Skills

Java, MATLAB, JavaScript, Python, HTML, Verilog, Microsoft Office, iWork, Adobe Photoshop & InDesign

Relevant Coursework

Green Business, Astrophysics II, Analytical Mechanics, Electromagnetic Fields, Digital Electronics, Computational Physics, Math Methods for Scientists, Multivariable Calculus, Linear Algebra, Differential Equations

Work Experience

Emory University Residence Life and Housing

August 2013 - Present

Resident Advisor, Sophomore Advisor, Atlanta, GA

- Teach 280 residents about the 3 E's of sustainability through hall programs and other creative methods
- Facilitate conflict resolution, difficult dialogues, and personal development for 280 residents
- Independently developed an FYE-wide trip to Fernbank Planetarium attended by over 100 students

Fernbank Science Center

March 2013 - June 2014

Astronomy Assistant, Atlanta, GA

- Orchestrated children's and public planetarium shows, which included a narrated tour of the night sky
- Educated attendees on noteworthy constellations, stars and relevant astronomical phenomena
- Operated the Zeiss V projector, audio mixer, channel switcher, and other equipment

Emory University

August 2013 - May 2014

Teaching Assistant, Atlanta, GA

- Conducted review sessions before each of 4 exams in addition to 1-on-1 help sessions with students
- Graded homework, held office hours, and aided Dr. Erin Bonning's 80-person *Intro to Astronomy* class
- Assembled a course roster using Microsoft Excel to organize and calculate students' grades

Scholarly Inquiry and Research at Emory (SIRE)

August 2012 - May 2013

Research Assistant, Atlanta, GA

- Researched Cepheid, Algol and variable star systems in Dr. Richard Williamon's laboratory
- Presented a poster promoting fundamental knowledge of variable stars at SIRE's symposium in April
- Studied and critiqued 10 journal publications from the *Royal Astronomical Society*

Independent Projects

Naval Academy Science and Engineering Conference, Scribe

November 2014

- Served as one of four physics majors selected to represent Emory University at NASEC 2014
- Drafted an executive summary on automated planetary rovers, which will be published in early 2015

Emory University Office of Sustainability Initiatives, Grant Winner

October 2014

- Applied for and obtained a \$700 grant to install LED lights inside and outside of Evans residence hall
- Coordinate Emory's electrical engineer and Director of Housing Operations to organize installation

The Emory Spoke, Contributing Writer, Graphic Designer

October 2014 - Present

- Brainstorm during weekly meetings and write articles which are posted on emoryspoke.org
- Photoshop pictures for online articles and co-designed *The Spoke Seasonal* Fall 2014 magazine

Emory Robotics Club, Co-Project Lead

August 2014 - Present

- Designing and engineering an arduino controlled LED frequency spectrum visualizer
- Launched a Facebook social media campaign to advertise the Share a Hack with CocaCola hackathon

Emory University Astronomy Club, Treasurer, Co-Vice President

August 2012 - October 2014

Abilities and Interests

Language: Spanish (*Advanced*)

Interests: Intramural Soccer, Film, Comedy, Writing (storieshouse.com)