

**Jonathan Brophy**

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## Education, EIT

**University of Oregon, Computer Science**, Eugene, OR

Expected: June 2017

- M.S. in *Computer Science*.

**Cal Poly, College of Engineering**, San Luis Obispo, CA

Graduated: March 2014

- B.S. in *Electrical Engineering*, Minor in *Computer Science*.

**University de Valladolid**, Valladolid, Spain

Graduated: Summer 2011

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## Projects

**Social Network Spam**

Summer 2016-Present

- Using relational machine learning to robustly detect spam comments in various social networks.

**Distributed Graph Processing**

Spring 2016

- Wrote a survey paper about all the latest advances in distributed graph processing frameworks.

**U.S. School Shootings**

Winter 2016

- Collected data on all school shootings in the U.S. dating back to the creation of the country.
- Used various data mining tools to extract useful insights and patterns hidden in the dataset.

**Endangered Species**

Fall 2014

- Created an iOS application written in Swift to spread awareness about endangered animals.
- Created a chrome extension written in HTML 5, JS, CSS to spread awareness about endangered animals.

**Visual Representation of Sound, Senior Project (Cal Poly)**

Spring 2013

- Detects sound using uni-directional microphones, and overlays graphics onto the screen of augmented reality glasses the user wears; these graphics show which direction the sound originated from.

**Keyboard Synthesizer (Cal Poly)**

Spring 2012

- Embedded systems project written in C that outputs different frequencies from our man-made keyboard through a speaker using an Arduino Uno microcontroller.
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## Experience

**iOS Developer/Consultant: World Wide Technology: Asynchrony Labs**, St. Louis, MO

January 2015-August 2015

- Worked on five different projects for different clients as an iOS/Java/JS developer. Practiced agile development and extreme programming methods such as pair/mob programming, pair switching, and test driven design.
- Teams are small and self organized, each member is responsible for contributing to the decision process.

**iOS Developer: Contractor: Macy's.com**, San Francisco, CA

August 2014 - November 2014

- Worked as a contractor for Macy's.com as an iOS developer in a team of over 15 iOS developers working to develop the Macy's and Bloomingdale's iPhone apps. Environment was SCRUM style of development.

**iOS Developer: Intern: PlotOhMatic, NASA Jet Propulsion Laboratory**, Pasadena, CA

May 2014-August 2014

- Human Interface Group: Built an in-house iPad app, 'PlotOhMatic', for the Mars Operations' Team that displays telemetry data from the MSL rover to the team so they are better informed about what to do with the spacecraft.

**Startup: iOS Developer: Haberdashion**, San Luis Obispo, CA

Winter 2012-Spring 2014

- Responsible for the development and deployment of the Haberdashion iPhone app, released May 2014.

**Electrical Engineering Intern, NASA Jet Propulsion Laboratory**, Pasadena, CA

Summers: 2013, 2012

- Electronics and Power Systems Division: First summer there I learned to use LabView to control test equipment using GPIB cables; also passed the CLAD exam. The second summer there I wrote a LabView test suite and test procedure manual to easily allow engineers to test the characteristics of power converter boards.
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## Leadership

**UO Graduate Student Advisory Board (GSAB)**, Eugene, OR

Fall 2015 - Present

- Meetings with 20-25 graduate students to discuss events, concerns, and future success of the graduate body.

**UO Graduate Employees (GE)**, Eugene, OR

Fall 2015 - Present

- Data Management GE: Maintain various websites for the graduate school.
- CIT 381: Lab instructor for a relational databases course involving MySQL, PHP, and HTML web apps.

**Cal Poly Teaching Assistants (TA)**

Fall 2012, 2010

- IME 156: Lab assistant during the creation of a variably-controlled power supply.
- EE 348: Lab assistant for the construction of a three-stage operational amplifier and related concepts.

**Cal Poly Student Government**, San Luis Obispo, CA

Fall 2011-Spring 2012

- College of Engineering's Representative to sit on the University Union Advisory Board (UUAB).

**Cal Poly Week of Welcome (WOW) Orientation Leader**, San Luis Obispo, CA

Spring 2011-Fall 2011

- Over 40 hours of training to transition incoming freshmen into Cal Poly and San Luis Obispo.