

# Eileen J. Choe

## Curriculum Vitae

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### Education

2014–Present **BS, Computer Science**, *Loyola Marymount University (LMU)*, Los Angeles, CA  
Minor in Applied Mathematics  
University Honors Program  
Expected: May 2018  
Cumulative GPA: 4.0/4.0

### Research Experience

#### Loyola Marymount University

January 2017–  
Present **Undergraduate Researcher**, *GRNsight*  
Research Advisors: John Dondi Dionisio, Ph.D., Professor of Computer Science  
Kam Dahlquist, Ph.D., Professor of Biology  
Currently developing a node coloring framework to visualize gene expression data for GRNsight, a web application and service for visualizing small- to medium-sized gene regulatory networks.

### Professional Experience

May 2017 – **Software Engineering Intern**, BLUE ORIGIN, Kent, WA  
August 2017 Developed interactive user interfaces using Angular for enterprise web applications used for rocket development and manufacturing. Used redux to implement client-side state management for part serial numbers. Integrated a self-hosted analytics platform to track and analyze user data.  
June 2016 – **Engineering Intern**, NASA JET PROPULSION LABORATORY, Pasadena, CA  
January 2017 Developed data compression and analysis scripts in Matlab for a thermopile detector aging study, reducing individual test analysis time by over 50%. Built a Java application to automate monthly reliability report generation and performed risk impact analysis for JPL programs.  
May 2015 – **Engineering Intern**, RAYTHEON SPACE AND AIRBORNE SYSTEMS, El Segundo, CA  
August 2015 Performed risk assessment of a rectifier diode through research and qualification testing to characterize suitability for use across Raytheon product line. Performed parts obsolescence reviews and drafted Raytheon Vendor Control Drawing and Change Notice documents.

### Publications

2016 Ray Toal, Rachel Rivera, Alexander Schneider, and **Eileen Choe**. 2016. Programming Language Explorations. Chapman & Hall/CRC.

### Presentations

November  
2017 **Southern California Conferences for Undergraduate Research (Pomona, CA)**  
Research Advisors: John David Dionisio, Ph.D. and Kam Dahlquist, Ph.D.  
Oral Presentation: "GRNsight v2: a web application for visualizing models of small gene regulatory networks"

- October 2017 **Society of Women Engineers Undergraduate Research Competition (Austin, TX)**  
 Research Advisors: John David Dionisio, Ph.D. and Kam Dahlquist, Ph.D.  
 Oral Presentation: "GRNsight v2: a web application for visualizing models of small gene regulatory networks"
- March 2017 **Loyola Marymount University Undergraduate Research Symposium (LA, CA)**  
 Research Advisors: John David Dionisio, Ph.D. and Kam Dahlquist, Ph.D.  
 Poster: "Improved data interoperability for GRNsight: a web application for visualizing models of gene regulatory networks"

## Awards

- 2014 - 2018 LMU Presidential Academic Scholarship
- May 2017 Outstanding Junior Computer Science Major
- May 2016 Outstanding Sophomore Engineer
- May 2015 Outstanding Freshman Engineer
- May 2015 LMU Service and Leadership Award

## Teaching Experience

Loyola Marymount University

- Spring 2017 **Teaching Assistant for CMSI 186 -Programming Laboratory (Java)**  
 Instructor: John David Dionisio, Ph.D
- Spring 2016 **Teaching Assistant for ENGR 160 - Algorithms and Applications (MATLAB)**  
 Instructor: Nazmul Ula, Ph.D

## Professional Memberships and Societies

- 2016 - **Association for Computing Machinery**  
 Present Member
- 2014 - **Society of Women Engineers**  
 Present LMU Section President (2017 — 2018)  
 Region B Collegiate Communications Editor (2017 — 2018)  
 Region B SWE Future Leader (2016 — 2017)
- 2017 - **Alpha Sigma Nu Jesuit Honors Society**  
 Present LMU Section Secretary (2017 — 2018)

## Software Skills

- Programming Languages Java, JavaScript, Python, C, C++, CSS, HTML, MATLAB
- Tools and Frameworks Express, Node.js, Angular, d3, Git
- Databases MongoDB, SQL
- Operating Systems Windows, Linux, Macintosh

## International Experience

- Fall 2015 LMU Engineering Study Abroad Program in Bonn, Germany

Summer 2015 LMU Summer Study Abroad: Christianity and Art in Rome  
January 2015 LMU Alternative Break Social Justice Immersion Program: Haiti  
December 2014 LMU De Colores Service Learning Program: Tijuana, Mexico