

# 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 a data analysis pipeline for thermopile detector chip aging characterization tests, reducing individual test analysis time by over 50%. Programmed an application which analyzes the trends between electrical components used in CubeSats and in "flagship" JPL missions.  
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 (Los Angeles, CA)**  
 Research Advisors: John David Dionisio, Ph.D. and Kam Dahlquist, Ph.D.  
 Poster Presentation: "Improved data interoperability for GRNsight: a web application for visualizing models of gene regulatory networks"

## Awards

- October 2017 Society of Women Engineers Undergraduate Research Competition Finalist Travel Award
- May 2017 LMU College of Science and Engineering Outstanding Junior Computer Scientist Award
- May 2016 LMU College of Science and Engineering Outstanding Sophomore Engineer Award
- May 2015 LMU College of Science and Engineering Outstanding Freshman Engineer Award
- May 2015 LMU Service and Leadership Award
- 2014 - 2018 LMU Presidential Academic Scholarship

## 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)  
 LMU Section Vice President (2016 - 2017)  
 Region B SWE Future Leader (2016 - 2017)  
 LMU Section Outreach Coordinator (2015 - 2016)
- 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.js, Git
- Operating Systems Windows, Linux, Macintosh

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## 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