

# Edgar Jaramillo Rodriguez

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<https://ejaramillo701.github.io>

## Education

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### UC Berkeley, Undergraduate

2014-Present

College of Letters & Sciences, B.A. Applied Mathematics

GPA: 3.94

### United World College-USA High School

Graduated: 2014

Bilingual International Baccalaureate Diploma

## Awards & Honors

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UC Berkeley Dean's Honors List

5 of 6 Semesters

Boy Scouts of America—Eagle Scout

2013

## Teaching

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### Graduate Student Instructor (GSI), Math 54– Linear Algebra & Differential Equations

Fall 2017

- ❖ One of a select handful of undergraduates to receive a GSI position in the math department.
- ❖ Duties: lead two dissertation sections (each meeting for three hours a week), grade weekly homework, write and grade weekly quizzes, help grade exams, hold office hours.
- ❖ Section website: <https://ejaramillo701.github.io/math54.html>

## Research Experience

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### Research Experience for Undergraduates, DIMACS<sup>1</sup>, New Brunswick, NJ

Summer 2017

#### ❖ Publications/ Contributions:

- SEAR: a polynomial-time expected constant-factor optimal algorithmic framework for multi-robot path planning (with S. Han and J. Yu), [arXiv:1709.08215].
- Submitted to ICRA<sup>2</sup> 2018 as contributed paper.

### Research Experience for Undergraduates, Muhlenberg College, Allentown, PA

Summer 2016

#### ❖ Presentations:

- Young Mathematicians Conference 2016, The Ohio State University. Unique Integers on the Catalan Triangle. August 20<sup>th</sup>, 2016. (Poster Presentation)
- Joint Mathematics Meeting 2017, Atlanta, GA. Unique Integers on the Catalan Triangle. January 6<sup>th</sup>, 2017. (Poster Presentation)

#### ❖ Publications/ Contributions:

- Sequences A275586 and A275481 in the Online Encyclopedia of Integer Sequences.
- Paper in preparation.

## Skills

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**Languages:** Native Spanish and English speaker, proficient in French.

**Computer/Programming:** Extensive experience with Python, SQL, LaTeX, & Sage. Proficient with Matlab and HTML.

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<sup>1</sup> Center for Discrete Math and Theoretical Computer Science at Rutgers University

<sup>2</sup> International Conference on Robotics and Automation

## *Extra-Curricular Activities*

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### **Officer, Math Undergraduate Student Association**

Fall 2016-Present

- ❖ Served as Outreach Chair from Fall 2016-Spring 2017 and as Publicity Chair since Fall 2017.
- ❖ Duties include helping plan and advertise events. Took a leading role in planning a panel on diversity in mathematics in Fall 2016 as well as a panel on REU's in Spring 2017.
- ❖ Website: <https://musa.berkeley.edu>

### **Director, Bridging Berkeley**

Fall 2015-Spring 2017

- ❖ Bridging Berkeley is a math mentorship program between UC Berkeley's Public Service Center and Berkeley Unified School District. I served as director from the program's inception in Fall 2015 until Spring of 2017.
- ❖ The program now employs over 30 mentors, primarily UC Berkeley students, and serves over 100 middle-school students per semester.
- ❖ I stepped away to pursue other extra-curricular interests and to provide the leadership opportunity to other students so that the program could live on after I graduate.
- ❖ Website: <http://publicservice.berkeley.edu/programs/bridging-berkeley>