

Department of Mathematics, University of California, Los Angeles
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Los Angeles, CA 90095

- EDUCATION**
- University of California, Los Angeles**
 Doctor in Philosophy, Mathematics Aug. 2016 – Jun. 2021 (expected)
 - Analysis qualifying exam passed Sept. 2018
 - Geometry and Topology qualifying exam passed Sept. 2017
 - Basic qualifying exam passed Sept. 2016
- Northwestern University**
 Bachelor of Arts in Mathematics with Honors Sept. 2012 – Jun. 2016
 - Magna Cum Laude
 - Major GPA: 3.96 / 4.00
 - Cumulative GPA: 3.87 / 4.00
 - Honors Thesis: *Fredholm Operators and the Family Index*, advised by Ezra Getzler
- CONFERENCES AND WORKSHOPS**
- Symplectic Geometry and Homotopy Theory*, University of California, Los Angeles, Los Angeles, CA Dec. 2018
- The topology and geometry of low-dimensional manifolds*, University of Texas at Austin, Austin, TX Jul. 2018
- Summer Northwestern Analysis Program 2017, *Partial Differential Equations*, Northwestern University, Evanston, IL Aug. 2017
- J. Breen and S. Ford, *Sign Characteristic Preserving Linearizations in $\mathbb{D}\mathbb{L}(P)$* , Young Mathematicians Conference, The Ohio State University, Columbus, OH Aug. 2015.
- PUBLICATIONS**
- J. Breen, M. Bueno, S. Ford, and S. Furtado, *On the sign characteristic of Hermitian linearizations in $\mathbb{D}\mathbb{L}(P)$* . *Linear Algebra and its Applications*. 519 (2017), 73-101.
- OTHER RESEARCH EXPERIENCE**
- University of California, Santa Barbara**
 Undergraduate Research Student, Mathematics Department Jun. 2015 – Aug. 2015
 - Project: *On sign characteristic preserving linearizations in $\mathbb{D}\mathbb{L}(P)$* .
 - Advisor: Maribel Bueno
 - Research areas: Matrix analysis, indefinite linear algebra, matrix polynomials.
- ACADEMIC HONORS & AWARDS**
- Northwestern University**
 Dean's List Fall 2012 – Spring 2016
- Outstanding Achievement in Mathematics by a Graduating Senior May 2016
- Outstanding Contributions to Undergraduate Mathematical Life May 2016
- Phi Beta Kappa May 2015
- Outstanding Achievement in Mathematics by a Junior May 2015
- Outstanding Contributions to Undergraduate Mathematical Life May 2015
- Excellence as an Undergraduate Teaching Assistant May 2015
- Outstanding Achievement in Mathematics by a Sophomore May 2014
- Excellence in Mathematics by a Freshman May 2013
- TA EXPERIENCE**
- University of California, Los Angeles**

	Math 31B: Integration and Infinite Series	Fall 2018
	Math 115AH: Honors Linear Algebra	Spring 2018
	Math 33A: Linear Algebra and Applications	Spring 2018
	Math 31B: Integration and Infinite Series	Winter 2018
	Math 31AL: Differential and Integral Calculus Laboratory	Fall 2017
	Math 31B: Integration and Infinite Series	Fall 2017
	Math 31B: Integration and Infinite Series	Spring 2017
	Math 31B: Integration and Infinite Series	Winter 2017
	Math 31B: Integration and Infinite Series	Fall 2016
	Northwestern University	
	Math 240-0: Linear Algebra	Spring 2016
	Math 224-0: Integral Calculus of One Variable Functions	Winter 2016
	Math 230-0: Differential Calculus of Multivariable Functions	Fall 2015
	EECS 212-0: Mathematical Foundations of Computer Science	Fall 2015
	Math 230-0: Differential Calculus of Multivariable Functions	Winter 2015
	Math 224-0: Integral Calculus of One Variable Functions	Winter 2015
	Math 224-0: Integral Calculus of One Variable Functions	Fall 2014
OTHER EXPERIENCE	University of California, Los Angeles	
	<i>Center for Excellence in Engineering and Diversity</i> study night assistant	Spring 2018
	Northwestern University	
	Athletic Tutor, Northwestern Athletic Department	Jan. 2015 – Jun. 2016
	<i>Undergraduate Mathematics Society</i> Coordinator	Mar. 2015 – Jun. 2016
	<i>Undergraduate Mathematics Society</i> Assistant Coordinator	Dec. 2014 – Mar. 2015
	<i>Math & Mentors</i> study group leader	Sept. 2013 – Sept. 2014
	Center for Talent Development	
	Teaching Assistant, Summer Program	Jun. 2014 – Aug. 2014
	Teaching assistant for the following classes of 7th and 8th grade students: <i>Introduction to Java Programming</i> , <i>Web Development with Ruby on Rails</i> .	
	Office Assistant, Summer Program Admissions Office	Jan. 2013 – Jun. 2016
	Lingjie English School , Yueyang, Hunan, China	
	Summer Instructor	Jul. 2013 – Aug. 2013
	Primary instructor for four classes of students ages 12-14. Designed a summer curriculum, planned daily lessons, prepared classroom materials, and administered daily instruction.	