

Eric Lybrand | Resume

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Education

University of California, San Diego <i>Ph.D. Candidate in Mathematics</i>	San Diego, CA 2015–2020
University of Georgia <i>B.Sc. Mathematics</i>	Athens, GA 2011–2015

Previous Employment

University of California, San Diego <i>Academic Student Employee</i> Senior Teaching Assistant Graduate Teaching Assistant Integral Calculus, Differential Calculus, Honors Multivariable Mathematics with Manifolds, Linear Algebra, Vector Calculus. Junior Teaching Assistant CURE Graduate Research Assistant Served as research mentor for 6 UCSD undergraduates on a NSF funded random matrix theory project. Researched empirical spectral distributions of matrices with independent diagonals. Graduate Student Researcher NSF funded research in compressed sensing for extreme points of free spectrahedra under the guidance of Bill Helton.	San Diego, CA October 2015–Present 2018–2019 2015–2018 2017–2018 Summer 2017 Summer 2016
IPAM & NEC Corporation <i>Graduate Student Researcher</i> Designed a new path loss model for indoor localization using wireless received signal strength. Improved localization error by 1m in some cases.	Sendai, Japan Summer 2018

Technical Skills

Programming Languages: Python, Matlab, Mathematica, LaTeX
Other: Proficient Spanish speaker.

Professional Activities

UCSD Graduate Student Association Finance Committee	2017–2018
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Awards and Honors

UCSD Math Department Annual TA Award	2018
UCSD Senate Research Grant	Spring 2017
James B. Ax Graduate Fellowship	2015–2016
Coursera Machine Learning Statement of Accomplishment	2015
Presidential Scholar	2014–2015

Publications

- [1] H. Huang, T. Kemp, Y. Ling, X. Luo, E. Lybrand, R. Smith, and J. Wang. Random Matrices with Independent Diagonals. *preprint*.
- [2] E. Lybrand and R. Saab. Quantization for Low-Rank Matrix Recovery. *Information and Inference*, 2018.