Eric Lybrand | Resume

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Education

University of California, San Diego	**San Diego, CA**
Ph.D. Mathematics	*2015–2020*
University of Georgia	**Athens, GA**
B.Sc. Mathematics	*2011–2015*

Previous Employment

University of California, San Diego	**San Diego, CA**
Academic Student Employee	*October 2015–Present*
Senior Teaching Assistant	*2018-2019*
Graduate Teaching Assistant	*2015-2018*

    Integral Calculus, Differential Calculus, Honors Multivariable Mathematics with Manifolds, Linear Algebra, Vector Calculus.

Junior Teaching Assistant	*2017-2018*
CURE Graduate Research Assistant	*Summer 2017*

    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	*Summer 2016*

    NSF funded research in compressed sensing for extreme points of free spectrahedra under the guidance of Bill Helton.

IPAM & NEC Corporation	**Sendai, Japan**
Graduate Student Researcher	*Summer 2018*

Designed a new path loss model for indoor localization using wireless received signal strength. Improved localization error by 1m in some cases.

Technical Skills

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

Professional Activities

UCSD Graduate Student Association	*2017-2018*
Finance Committee	

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.