Pax Kivimae

CONTACT INFORMATION	Department of Mathematics Northwestern University 2033 Sheridan Rd Evanston, IL, 60208-2730 USA	kivimae@math.northwestern.edu kivimae.github.io (+1) 415 755 3744

RESEARCH INTERESTS Probability Theory, Statistical Physics, Random Matrix Theory, Spin Glasses

EDUCATION

Northwestern University — *Evanston, IL, USA*
Ph.D., Mathematics — *September 2016 - June 2022 (expected)*
Advisor: Antonio Auffinger

University of California, Los Angeles — *Los Angeles, CA, USA*
B.S. and M.A., Mathematics — *August 2012 - June 2016*

PAPERS

Critical Fluctuations for The Spherical Sherrington-Kirkpatrick Model in an External Field arxiv:1908.07512

Gaussian Multiplicative Chaos for Gaussian Orthogonal and Symplectic Ensembles arxiv:2012.09969

The Ground-State Energy and Concentration of Complexity in Spherical Bipartite Models arxiv:2107.13138

TALKS

Gaussian Multiplicative Chaos Limits for Random Symmetric Matrices　April 2022
University of Sussex Probability Seminar

The Ground-State Energy and Concentration of Complexity in Spherical Bipartite Models
Feburary 2022
University of Wisconsin: Madison Probability Seminar

Gaussian Multiplicative Chaos Limits for Gaussian Orthogonal and Symplectic Ensembles
January 2022
University of Oxford Random Matrix Theory Seminar

The Ground-State Energy and Concentration of Complexity in Spherical Bipartite Models
September 2021
University of Basel Probability Seminar

Continuum Limits for Random Quadratic Optimization　November 2019
Northeast Probability Seminar

Applications of Gamma Cohomology to Obstruction Theory　April 2017
Talbot Workshop

AWARDS & HONORS

Sherwood Scholarship (2016)

UCLA Undergraduate Math Scholar Award (2014)

SERVICE   Northwestern Directed Reading Program Mentor   Fall 2018 - Spring 2020

TEACHING

(Fall 2017) Math 240: Linear Algebra (Teaching Assistant) (two sections)

(Winter 2018) Math 321-2: Real Analysis II (Teaching Assistant)

(Winter 2018) Math 382: Complex Analysis and Group Theory (Teaching Assistant)

(Spring 2018) Math 281-3: Accelerated Mathematics for ISP (Teaching Assistant)

(Spring 2018) Math 334: Linear Algebra: Second Course (Teaching Assistant)

(Fall 2018) Math 410-1: Analysis (Teaching Assistant)

(Fall 2018) Math 311-1: Proability and Stochastic Processes (Teaching Assistant)

(Fall 2019) Math 410-1: Analysis (Teaching Assistant)

(Fall 2019) Math 321-1: Real Analysis I (Teaching Assistant)

(Fall 2021) Math 290-1: Linear Algebra and Vector Calculus (Teaching Assistant) (two sections)

(Winter 2021) Math 290-2: Linear Algebra and Vector Calculus (Teaching Assistant)

(Winter 2021) Math 334: Linear Algebra: Second Course (Teaching Assistant)

CONFERENCES ATTENDED

19th Northeast Probability Seminar	November 2019
41st Midwest Probability Colloquium	October 2019
CMI Integrable Probability Summer School	June 2019
18th Northeast Probability Seminar	November 2018
40th Midwest Probability Colloquium	October 2018
The Rough High-Dimensional Landscape Problem	Feburary 2018
39th Midwest Probability Colloquium	October 2017