

Pax Kivimae

CONTACT INFORMATION

Courant Institute of Mathematical Sciences
New York University
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RESEARCH INTERESTS

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

EMPLOYMENT

Courant Institute of Mathematical Sciences
NSF Postdoctoral Fellow

New York, NY, USA
September 2022 -

EDUCATION

Northwestern University
Ph.D., Mathematics
Advisor: Antonio Auffinger

Evanston, IL, USA
September 2016 - July 2022

University of California, Los Angeles
B.S. and M.A., Mathematics

Los Angeles, CA, USA
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

AWARDS & HONORS

NSF Mathematical Sciences Postdoctoral Research Fellowship (2022)

Northwestern University Department of Mathematics Best Thesis Award (2022)

Sherwood Scholarship (2016)

UCLA Undergraduate Math Scholar Award (2014)

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 February 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
Northeast Probability Seminar

November 2019

Applications of Gamma Cohomology to Obstruction Theory
Talbot Workshop

April 2017

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: Probability 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)