Pax Kivimae

CONTACT INFORMATION	Courant Institute of Mathematical Sciences New York University 251 Mercer St, New York, NY 10012, USA	pax.kivimae@cims.nyu.com kivimae.github.io (+1) 415 755 3744

RESEARCH INTERESTS

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

EMPLOYMENT

Courant Institute of Mathematical Sciences *New York, NY, USA*
NSF Postdoctoral Fellow September 2022 -

EDUCATION

Northwestern University *Evanston, IL, USA*
Ph.D., Mathematics September 2016 - July 2022
Advisor: Antonio Auffinger

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

PAPERS

Concentration of Equilibria and Relative Instability in Disordered Non-Relaxational Dynamics arxiv:212.11452

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

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

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

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

Concentration of Equilibria and Relative Instability in the Asymmetric p-Spin Model
New York University Probability Seminar December 2022

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

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

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

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

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: 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)