Pax Kivimae

CONTACT INFORMATION
Department of Mathematics
Northwestern University
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RESEARCH INTERESTS
Probability Theory, Statistical Physics, Random Matrix Theory, Spin Glasses

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

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
Sherwood Scholarship (2016)
UCLA Undergraduate Math Scholar Award (2014)

TALKS

Continuum Limits for Random Quadratic Optimization
Northeast Probability Seminar
November 2019

Heavy Nuclei and Universality in Random Matrices
Northwestern Undergraduate Math Society
February 2019

The Heat Kernel and The ζ-Function for Manifolds
Northwestern Graduate Student Seminar
May 2018

Applications of Gamma Cohomology to Obstruction Theory
Talbot Workshop
April 2017

Chiral Algebras in Conformal Field Theory
UCLA Graduate Student Representation Theory Seminar
March 2016

SERVICE
Northwestern Directed Reading Program Mentor
Fall 2018 - Spring 2019

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)

**CONFERENCES ATTENDED**

| Conference                                         | Date        |
|----------------------------------------------------|-------------|
| 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        | February 2018 |
| 39th Midwest Probability Colloquium                 | October 2017  |