

Elliot Paquette

Weizmann Institute
Department of Mathematics
POB 26
Rehovot 76100
Israel
`paquette@weizmann.ac.il`

- EDUCATION ♦ **University of Washington**, Seattle, WA
September 2008 – August 2013 Ph.D. in Mathematics.
Advisor: Ioana Dumitriu
Thesis: *Eigenvalue fluctuations of random matrices beyond the Gaussian universality class*
- ♦ **Kalamazoo College**, Kalamazoo, MI.
B.A. Magna Cum Laude in Mathematics and Physics, June 2008.
Undergraduate Thesis: *A Synthetic Approach to the Characterization of Graph Invariants*

PUBLICATIONS

- ♦ E. Paquette and O. Zeitouni. *Spectral decorrelation of GUE minors and the law of non-iterated logarithm* (in preparation).
- ♦ I. Dumitriu and E. Paquette. *Spectra of overlapping Wishart matrices and the Gaussian free field* (submitted). [arXiv](#)
- ♦ I. Benjamini, E. Paquette, and J. Pfeffer. *Anchored expansion, speed, and the hyperbolic Poisson Voronoi tessellation*. [arXiv](#)
- ♦ O. Feldheim, E. Paquette and O. Zeitouni. *Regularization of non-normal matrices by Gaussian noise* (to appear in Int. Math. Res. Not.) [arXiv](#)
- ♦ P. Maillard and E. Paquette. *Choices and Intervals* (to appear in Isr. J. Math.) [arXiv](#)
- ♦ Y. Malyshkin and E. Paquette. *The power of choice combined with preferential attachment* Elec. Comm. Prob. **19** (2014) [arXiv](#)
- ♦ Y. Malyshkin and E. Paquette. *The power of 2 choices over preferential attachment* (submitted) [arXiv](#)
- ♦ C. Hoffman, M. Kahle, and E. Paquette. *The threshold for integer homology in random d -complexes*. (submitted) [arXiv](#)
- ♦ T. Johnson and E. Paquette. *Quantitative small subgraph conditioning*. (submitted) [arXiv](#)
- ♦ C. Hoffman, M. Kahle, and E. Paquette. *Spectral gaps of random graphs and applications to random topology*. (submitted) [arXiv](#)
- ♦ I. Dumitriu and E. Paquette. *Global Fluctuations for Linear Statistics of β -Jacobi Ensembles*. Random Matrices: Theory Appl. **01** 1250013 (2012) [arXiv](#)
- ♦ I. Dumitriu, T. Johnson, S. Pal, and E. Paquette. *Functional limit theorems for Random Regular Graphs*. Probab. Theory Related Fields, (2012), 1-55. 10.1007/s00440-012-0447-y [arXiv](#)
- ♦ T. Keleti and E. Paquette. *The Trouble with the von Koch Curve built from n -gons*. Amer. Math. Monthly, Vol. 117, No. 2 (February 2010), 124-137. [JSTOR](#)
- ♦ E. Paquette and C. Seaton. *An Index Theorem for Orbifolds with Boundary*. Involve. Vol. 2 (2009), 161–175. [arXiv](#)

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|--------------------------------|--|
| ACADEMIC
WORK
EXPERIENCE | <ul style="list-style-type: none"> ◇ Teaching Assistant, NSF Research Experience for Undergraduates in Inverse Problems (Summer 2012) ◇ Instructor, Math 307, Differential Equations (Winter 2012, Spring 2012) ◇ Instructor, Math 309, Linear Analysis (Summer 2011) ◇ Grader, Math 554-6, Graduate Linear Analysis (Fall 2010, Winter 2011, Fall 2012) ◇ Teaching Assistant, (Fall 2008-Spring 2010) Led quiz sections in business math (Math 111), precalculus (Math 120), differential calculus (Math 124), integral calculus (Math 125), and multivariable calculus (Math 126). |
| HONORS AND
GRANTS | <ul style="list-style-type: none"> ◇ NSF Postdoctoral Fellowship DMS-1304057 (2013+) ◇ McKibben-Merner Fellowship (2012-2013) ◇ Support from NSF grant DMS-0806024 and NSF CAREER award DMS-0847661 (Summer 2010 and Spring 2011) ◇ UW Top Scholar Award (2008-2009) ◇ Phi Beta Kappa member ◇ Clark Benedict Williams Prize in Mathematics (Kalamazoo College) ◇ John Wesley Hornbeck Prize in Physics (Kalamazoo College) ◇ Beeler Fellowship (Kalamazoo College - Summer 2007) |
| TALKS
GIVEN | <ul style="list-style-type: none"> ◇ E. Paquette. <i>Stationary random graphs and the hyperbolic Poisson Voronoi tessellation</i>, Ohio State University, Probability and Combinatorics Seminar (Fall 2014) ◇ E. Paquette. <i>Stationary random graphs and the hyperbolic Poisson Voronoi tessellation</i>, Courant Probability Seminar (Fall 2014) ◇ E. Paquette. <i>Choices and Intervals</i>, Action Now Seminar, Technion (Summer 2014) ◇ E. Paquette. <i>Choices and Intervals</i>, Ben Gurion University Probability Seminar (Spring 2014) ◇ E. Paquette. <i>Choices and Intervals</i>, Horowitz Seminar, Tel Aviv University (Spring 2014) ◇ E. Paquette. <i>The spectrum of Erdős-Rényi graphs near the connectivity threshold</i>, Technion (Fall 2013) ◇ E. Paquette. <i>Sample Covariance Matrices and the GFF</i>, IMA Advances in Random Matrix Theory, (Summer 2012) ◇ E. Paquette. <i>The Eigenvalues that Fluctuate and the Eigenvalues that Escape Us</i>, UW Probability Seminar, (November 2011). ◇ E. Paquette. <i>The Trouble with von Koch Curves built from n-gons.</i>, UW Rainwater Seminar, (Spring 2010). ◇ G. Csárdi and E. Paquette. <i>An Algebraic Approach to Characterizing Graph Invariants, with an Emphasis Towards Computation</i>, AMS-MAA Joint Mathematics Meetings (San Diego, 2008). ◇ G. Csárdi, E. Paquette, and P. Érdi. <i>Estimating the Dynamics of Kernel-Based Evolving Networks</i>, NSF US-Hungarian Workshop on Large Scale Random Graph Methods for Modeling Mesoscopic Behavior in Biological and Physical Systems (Budapest, Fall 2006). |