

CURRICULUM VITAE

Name: Ivan Zachary Corwin
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- Education** Courant Institute (NYU), Ph.D. in Mathematics (expected May 2011) 2007-
Harvard University, A.B. Magna Cum Laude in Mathematics 2002-2006
- Research Interests** Probability Theory, Non-equilibrium Statistical Mechanics, Stochastic Partial Differential Equations, Interacting Particle Systems, Growth Processes, Polymers, Random Matrices.
- Honors and Distinctions**
- MSRI distinguished speaker at MSRI/Evans Lecture Series September 2010
 - Wilhelm T. Magnus Memorial Prize for significant contributions to the mathematical sciences, Courant Institute (NYU) April 2010
 - National Science Foundation Graduate Research Fellowship Award 2006-2010
 - Harvard Math Department Honorary at yearly Friends Dinner 2002-2006
 - Top designation of Outstanding in Mathematics Contest in Modeling 2002-2005
 - MAA award for the Mathematics Contest in Modeling 2003-2004
 - Honorable Mention in Putnam Mathematics Competition 2003-2004
- Academic positions**
- Member, MSRI Fall 2010
 - Instructor, NYU (Probability I, Analysis II, Calculus I) 2008-2010
 - Teaching Assistant, MSRI workshop on Random Matrix Theory July 2009
 - National Science Foundation Graduate Research Fellowship, NYU 2007-2010
 - McCracken Doctoral Fellowship, NYU 2007-2011
 - Course Assistant, Harvard (Honors Linear Algebra/Real Analysis I, II) 2005-2006
- Invited Academic Visits**
- Jeremy Quastel, University of Toronto May, October 2009, July 2010
 - H.T. Yau, Harvard University May 2010
 - Vladas Sidoravicius, IMPA (Instituto Nacional de Matemática Pura e Aplicada) Rio De Janeiro, Brazil Expected February-April 2011
- Professional Activities**
- American Institute of Mathematics workshop: KPZ Universality, with Jeremy Quastel, proposed submission (expected) 2012
 - Organizer, Courant Graduate Student Probability Seminar 2008-2010
 - Organizer, Courant Random Maps and Random Matrices Seminar 2009-2010
 - Organizer, Courant Asymmetric Simple Exclusion Process Seminar, with Gérard Ben Arous and Percy Deift 2008-2009
 - Reviewer, Annals of Applied Probability, Communications on Pure and Applied Mathematics, International Mathematics Research Notices.
- Talks**
- Invited Lecture Series and Mini-Courses**
- Two week long mini-course lecturer at NSF Funded Pan-American Advanced Studies Institute in Chile and Argentina: Topics in Percolative and Disordered Systems; Organized by Charles Newman and Gérard Ben Arous January 2012
 - Three lecture series at IMPA, Brazil. Series title: *The Kardar-Parisi-Zhang equation*; Organized by Vladas Sidoravicius February 2011
 - Three lecture series at U.C. Berkeley. Series title: *The Kardar-Parisi-Zhang equation*;

Invited Conference Talks

- Stochastic Coalescence and Random Growth Models minisymposium, 7th International Congress on Industrial and Applied Mathematics, Vancouver, BC; Title: *The KPZ equation is in the KPZ universality class*; Organized by Bob Pego and Ravi Srinivasan July 2011
- Large Scale Stochastic Dynamics, Oberwolfach, Germany; Title: *How to solve the Kardar-Parisi-Zhang stochastic PDE*; Organized by Claudio Landim, Stefano Olla, and Herbert Spohn November 2010
- MSRI/Evans Lecture Series; Title: *Beyond the Gaussian universality class*; Organized by Jinho Baik, Alexei Borodin, Percy Deift, Alice Guionnet, Craig Tracy, and Pierre van Moerbeke September 2010
- 28th Annual Western States Mathematical Physics Meeting, CalTech; Title: *Probability distribution of the free energy of the continuum directed random polymer in 1+1 dimensions*; Organized by Barry Simon February 2010
- Interacting Stochastic Particle Systems, Centre de Recherches Mathématiques, Montreal; Title: *Current Fluctuations for TASEP with Two-sided Densities*; Organized by Kostya Khanin, Joel Lebowitz, Jeremy Quastel and Timo Seppäläinen May 2009

Invited Seminar Talks

- EURANDOM (Netherlands) Random Spatial Structures program Seminar; Title: *Beyond the Gaussian universality class*; Organized by Frank den Hollander and Remco van der Hofstad January 2011
- Delft (Netherlands) Probability Seminar; Title: *Beyond the Gaussian universality class*; Organized by Eric Cator January 2011
- Weizmann Institute (Israel) Probability Seminar; Title: *The KPZ equation: Beyond the Gaussian universality class*; Organized by Gady Kozma January 2011
- Tel Aviv University (Israel) Horowitz Seminar on Probability, Ergodic Theory and Dynamical Systems; Title: *Beyond the Gaussian universality class*; Organized by Jon Aaronson and Ron Peled January 2011
- UCLA Probability Seminar; Title: *The continuum directed random polymer*; Organized by Marek Biskup December 2010
- Columbia Probability Seminar; *Beyond the Gaussian universality class*; Organized by Julien Dubedat, Ioannis Karatzas, Robert Neel, and Emmanuel Schertzer. November 2010
- Stanford Probability Seminar; Title: *How to solve the Kardar-Parisi-Zhang stochastic PDE*; Organized by Amir Dembo October 2010
- U.C. Davis Mathematical Physics and Probability Seminar; Title: *How to solve the Kardar-Parisi-Zhang stochastic PDE*; Organized by Alexander Soshnikov and Alessandro Pizzo October 2010
- University of British Columbia Probability Seminar; Title: *The KPZ universality class and equation*; Organized by Omer Angel and Ori Gurel-Gurevich October 2010
- Toronto Probability Seminar; Title: *Fluctuations for the KPZ universality class*; Organized by Bálint Virág, Jeremy Quastel, Tom Alberts and Gábor Pete July 2010
- City University of New York Probability Seminar; Title: *Fluctuations in traffic flow, crystal growth and random matrices*; Organized by Jay Rosen February 2010
- Courant Institute Probability Seminar; Title: *Fluctuations of the totally asymmetric simple exclusion process*; Organized by Chuck Newman, S.R.S. Varadhan, Gérard Ben Arous, and Sourav Chatterjee February 2010
- University of Utah Stochastics Seminar; Title: *Fluctuations in the height of random crystals*; Organized by Firas Rassoul-Agha January 2010
- MIT Probability Seminar; Title: *Fluctuations in traffic flow, crystal growth and random matrices*; Organized by Scott Sheffield and Daniel Stroock November 2009
- University of Wisconsin Probability Seminar; Title: *Directed last passage percolation with*

- step-function boundary conditions*; Organized by Benedek Valko October 2009
- Harvard Random Matrix Seminar; Title: *Fluctuations in traffic flow, crystal growth and random matrices*; Organized by H.T. Yau September 2009
 - Courant Random Maps and Random Matrices Seminar; Three lectures: (1) *Introduction to maps*. (2-3) *Matrix integrals and map enumeration*; Organized by Ivan Corwin 2009
 - Courant Asymmetric Simple Exclusion Process Seminar; Eleven lectures: (1) *The Master Equation for ASEP*. (2) *Particle Position Distributions in ASEP*. (3) *General Particle Position Distributions in ASEP*. (4-8) *Asymptotics in ASEP with step initial conditions*. (9-10) *Random Processes Associated with TASEP and LPP*. (11) *Current Fluctuations of SSEP*; Organized by Gérard Ben Arous, Ivan Corwin, Percy Deift 2008-2009

Contributed Talks

- Clay Mathematics Institute 2010 Summer School (Buzios, Brazil); Organized by David Ellwood, Charles Newman, Vladas Sidoravicius, and Wendelin Werner July 2010
- Orthogonal Polynomials, applications in Statistics and Stochastic Processes workshop, Warwick, UK; Organized by Persi Diaconis, Bob Griffiths, Dario Spano, Jon Warren, Nikos Zygouras July 2010
- School of Analysis with Applications, Tucson, Arizona; Organized by Robert Sims, and Daniel Ueltschi March 2010
- Frontier Probability Days, Utah; Organized by Firas Rassoul-Agha March 2009

Non-Academic positions

- Ninth grade math teacher, Asperger's Institute school (New York, NY) 2007-2008
- Portfolio Management Associate, Ellington Captial Management(Greenwich, CT)2006-2007
- The Math Circle teacher (Cambridge, MA) 2005-2006
- Member of nuclear modeling division, Anatech Corporation(Poughkeepsie, NY) 2002-2004