CURRICULUM VITAE Name: Ivan Zachary Corwin Email: ic2354@columbia.edu

Education	Courant Institute, NYU (New York, NY), Ph.D. in Mathematics Harvard University (Cambridge, MA), A.B. Magna Cum Laude in Mathematic	2007-2011 cs 2002-2006	
Research Interests	Probability, mathematical physics, statistical mechanics, stochastic PDEs, interacting par- ticle systems, growth models, random matrices, symmetric functions, quantum integrable systems.		
Academic positions	 Full Professor, Columbia University (New York, NY) Associate Professor, Columbia University (New York, NY) Research Fellow, Clay Mathematics Institute (Cambridge, MA) Visiting Professor, Pierre and Marie Curie University (Paris, France) C.L.E. Moore Instructor, MIT (Cambridge, MA) Postdoctoral Fellow, Microsoft Research (Cambridge, MA) Member, MSRI (Berkeley, CA) 	2017- 2013-2017 2012-2016 2014-2015 2012-2014 2011-2012 2010	
Honors and Distinctions	 Fellow of the IMS Gerald L. Alexanderson Award Packard Fellowship Rollo Davidson Prize Poincaré Chair, Institute Henri Poincaré Invited lecture, International Congress of Mathematicians Young Scientist Prize, International Union of Pure and Applied Physics Clay Research Fellowship Schramm Memorial Postdoctoral Fellowship Kurt O. Friedrichs Prize, Courant Institute Wilhelm T. Magnus Memorial Prize, Courant Institute 	$\begin{array}{c} 2018\\ 2017\\ 2014\text{-}2019\\ 2014\\ 2014\text{-}2015\\ 2014\\ 2012\\ 2012\text{-}2016\\ 2011\text{-}2014\\ 2011\\ 2010\\ \end{array}$	
Grants (as PI)	 NSF DMS:1937254, RTG: Research Training in Applied Mathematics at Columbia University. Amount: \$1,900,000 (August 2019 - July 2024). NSF DMS:1811143, Scaling Limits of Growth in Random Media. Amount: \$500,000 (July 2018 - June 2023). NSF DMS:1804339, Workshop on Transport and Localization in Random Media: Theory and Applications. Amount: \$30,000 (April 2018 - March 2019). NSF DMS:1724870, Northeast Probability Seminar 2017-2019. Amount: \$75,960 (September 2017 - August 2020). NSF DMS:1642595, CBMS Conference: Dyson-Schwinger equations, topological expansions and random matrices. Amount: \$37,800 (August 2017) NSF DMS:1664650, FRG: Collaborative Research: Integrable Probability. Amount: \$315,418 (July 2017 - June 2020). NSF DMS:1637087, Conference on quantum integrable systems, conformal field theories and stochastic processes. Amount \$29,990 (July 2016). Packard Fellowship in Science and Engineering. Amount \$875,000 (October 2014 - October 2019). NSF DMS:1445391, Northeast Probability Seminar 2014. Amount \$63,300 (September 2014 - September 2017). 		

	 NSF DMS:1208998, Exact solvability of the Kardar-Parisi-Zhang stochastic ential equation. Amount: \$151,826 (July 2012 – June 2016). NSF Graduate Research Fellowship Award (July 2006 – June 2010). 	partial differ-
Organizer	• MSRI Jumbo Semester Program on Universality and Integrability in Random	n Matrix The-
organizer	ory and Interacting Particle Systems (Berkeley, CA)	2021
	• Random Growth Models and KPZ Universality (Banff, CA)	2021
	• CMI-HIMR Summer School in Integrable Probability (Oxford, UK)	2020
	• IntProb 2020 NYC (New York, NY)	2020
	• Symposium on Random Matrices in Biology (New York, NY)	2019
	• CMI at 20 (Oxford, UK)	2018
	• Workshop on Transport and Localization in Random Media: Theory and	
	(New York, NY)	2018
	• CBMS Conference: Dyson-Schwinger equations, topological expansions and trices (New York, NY)	1 random ma- 2017
	• Park City Mathematics Institute on Random Matrix Theory (Park City, U	
	 Dynamics, Aging and Universality in Complex Systems, NYU (New York, 1) 	,
	• Columbia University Symposium on Probability & Society (New York, NY	/
	• Quantum Integrable Systems, Conformal Field Theories and Stochastic Proc	
	D'Etudes Scientifiques de Cargese (Corsica, FR)	2016
	• Semester Program on New Approaches to Non-equilibrium and Random S	ystems, Kavli
	Institute for Theoretical Physics (Santa Barbara, CA)	2016
	• Stochastic Models and Probability (Including Random Matrices, SLE, KPZ a	· · · · ·
	International Congress on Mathematical Physics Topical Session (Santiago, C	/
	 Random polymers and algebraic combinatorics (Oxford, UK) Northeast Probability Seminar (New York, NY) 	2015 2014, 2017
	• Clay Research Conference on Advances in Probability: Integrability, Univer	,
	yond, Mathematics Institute (Oxford, UK)	2014
	• From Macdonald Processes to Hecke Algebras and Quantum Integrable Syst	
	Henri Poincare (Paris, FR)	2014
	• Summer Workshop on Stochastic Partial Differential Equations, Mathem	atical Science
	Research Institute (Berkeley, CA)	2014
	• Columbia-Princeton Probability Day, Columbia University (New York, NY)	
	• Columbia-Courant Joint Probability Seminar Series (New York, NY)	2013-present
	• Columbia Probability Seminar (New York, NY)	2013-present
	 NYC Integrable Probability Working Group (New York, NY) Charles River Lectures on Probability and Related Topics (Cambridge, MA) 	2016-present () 2012 - 2014
	• Workshop on the KPZ Equation and Universality Class, American Institu	/
	matics (Palo Alto, CA)	2011
	• MIT Probability Seminar (Cambridge, MA)	2011-2013
	• Harvard-MIT Random Matrix Theory Seminar (Cambridge, MA)	2013
	• Courant Random Maps and Random Matrices Seminar (New York, NY)	2009-2010
	• Courant Asymmetric Simple Exclusion Process Seminar (New York, NY)	2008-2009
	• Courant Graduate Student Probability Seminar (New York, NY)	2008-2010
Other Profession	al• Member of AMS Centennial Fellowship Committee (Chair in 2018-2019)	2017-2019
Activities	• Member of Math Meetings Subcommittee of the AMS Committee on Meet	
	ferences	2017-present
	\bullet Designated Editor, International Mathematics Research Notices	2019-present
	• Associate Editor / Founding Member, Probability and Mathematical Physics	
	• Editorial Board, Bulletins of the AMS	2018-present
	• Editorial Board, Journal of Functional Analysis	2017-present
	• Editorial Board, SIGMA	2017-present

		sociated Editor, Probability Theory and Related Fields	2015-present
		itorial Board, Selecta Mathematica	2015-present
		sociate Editor, Annales de l'Institut Henri Poincaré	2013-present
		itorial Board, Journal of Statistical Physics	2013-present
		est Editor-in-Chief, Journal of Statistical Physics issue in honor of Joel L	
		est Editor, SIGMA "Special Issue on Asymptotics and Universality in	
		s, Random Growth Processes, Integrable Systems and Statistical Physic	
	•	/ Deift and Craig Tracy"	2016
		entific Board, Northeast Probability Seminar mber of Promotions and Tenure Committee for Columbia Faculty of Arts	2014-present
	• Me		and sciences
		visor, Columbia Mathematical Contest in Modeling Team	2015-present
		mber, Program for Mathematical Genomics at Columbia University	2018-present
		mber, Cancer Dynamics Center at Columbia University	2019-present
		t-Doctoral Mentor: Guillaume Barraquand (Columbia, 2015-2018), Jeffrey	-
		2018; followed by tenure track at Texas A&M), Hao Shen (Columbia	
	follov	ved by tenure track at U. Wisconsin), Li-Cheng Tsai (Columbia, 2016	5-2019), Alisa
		el (Columbia, 2017-2020), Evgeni Dimitrov (Columbia, 2018-2022), Kons	
	ski (O	Columbia, 2018-2022).	
		.D. Advisor: Xuan Wu (Columbia, 2014-), Promit Ghosal (Columbia, 201	
	`	umbia, 2016-), Mark Rychnovsky (Columbia, 2016-), Shalin Parekh (Colu	mbia, 2017-),
	•	n Das (Columbia, 2018-), Weitao Zhu (Columbia, 2018-).	
		dergraduate Mentor: Yujin Kim (Columbia, 2018-2019) Matthew Lerner-B	Brecher (Columbia,
		.), Romain Panis (ENS Paris exchange to Columbia, 2019).	
	~	ch School Student Mentor: Sameer Pai (Bergen County Academies, 2019	-present $).$
	• Fac	culty Mentor: Daniel Lacker (Columbia IEOR, 2017-).	
Congress Lectures	1		1 6
Congress Dectures	1.	Plenary lecture (Mahler Lecture), Australian Mathematical Society annu	
			ecember 2017
	2.	Invited lecture, International Congress of Mathematicians, Seoul, Korea	
		donald processes, quantum integrable systems and the KPZ class;	August 2014
	3.	Plenary lecture, 37th Conference on Stochastic Processes and their	Applications,
		Buenos Aires, Argentina; Title: Integrable probability: beyond the Gauss	ian universal-
		ity class;	July 2014
	4.	Invited lecture, International Congress of Mathematical Physics, Aalbo	rg, Denmark;
		Title: Exactly solvable directed random polymers in $1 + 1$ dimension;	August 2012
Distinguished	1	Mahler Lectures, Australia; Titles: Beyond the Gaussian Universality Cl	ass (delivered
Lectures	1.	at University of Technology Sydney, Macquarie University, Australian I	
		versity, University of Melbourne, University of Queensland), Random	
		partitions and PDEs (delivered at University of Sydney, Monash Universi	
		of Queensland), Diffusion in Random Media (delivered at La Trobe Un	
		versity of Melbourne, University of Adelaide), Stochastic Quantum Integ	
			ovember 2018
	?	Chern-Simons Lectures, Berkeley CA; Title: Analysis of stochastic quant	tum integrable
	۷.	systems (Lecture 1: q-TASEP, q-Bosons and their KPZ limits; Lecture 2:	0
		and Markov duality; Lecture 3: Bridges to Macdonald processes and	
		ensembles);	April 2017
			1

3. Abel Symposium 2016 on Computation and Combinatorics in Dynamics, Stochastics and Control; Rosendal, Norway; Title *Integrable probability*; August 2016

4	4. 50th Swiss Probability Seminar Celebration, Zurich, Switzerland; Title: Fluctuations at the leading edge and Pfaffian processes; June 2016
3	5. Texas Analysis and Mathematical Physics Symposium, U.T. Dallas; Title: Integrable probability and the KPZ universality class; November 2015
6	5. Charles River Lectures on Probably and Relative Topics, Microsoft Research New England; Title: Integrable probability and the KPZ universality class; October 2015
7	7. Mathematics Park, Institute Henri Poincare; Title: Universal phenomena in random systems; May 2015
٤	8. Lipschitz Lectures, Hausdorff Center of Mathematics. Title: <i>Integrable probability and Macdonald processes</i> ; Organized by Anton Bovier and Patrik Ferrari January 2013
ç	0. MSRI Evans Lecture, University of California Berkeley; Title: Beyond the Gaussian universality class; September 2010
Colloquia	. University of Chicago; Title: <i>TBD</i> ; May 2020
2	2. Renaissance Technologies; Title: Beyond the Gaussian university class; September 2019
3	B. University of Michigan; Title: A twisted tail of KPZ, Coulomb gas and Painleve; April 2019
4	A. Centre International de Rencontres Mathmatiques; Title: A twisted tail of KPZ, Coulomb gas and Painleve; March 2019
3	5. Queens College; Title: A drunk walk in a drunk world; November 2018
6	6. Georgia Tech; Title: Integrable Probability; January 2018
7	7. Stanford; Title: <i>Stochastic six vertex model</i> ; October 2017
٤	8. University of Southern California (Center for Applied Mathematical Sciences): Title: Beyond the Gaussian universality class: traffic, growth, matrices and their universal fluctuations; October 2017
(0. University of California Berkeley; Title: A drunk walk in a drunk world; April 2017
10	0. SUNY Binghamton; Title: A drunk walk in a drunk world; March 2017
11	. Rutgers; Title: Integrable probability and the KPZ universality class; December 2016
12	2. Montreal; Title: Integrable probability and the KPZ universality class; September 2016
13	B. Center for Communications Research, Princeton; Title: A drunk walk in a drunk world; June 2016
14	A. Kavli Institute for Theoretical Physics; Title: The Kardar-Parisi-Zhang (KPZ) equation at thirty; March 2016
15	5. Caltech; Title: A drunk walk in a drunk world; February 2016
16	3. University of Maryland; Title: A drunk walk in a drunk world; December 2015
17	7. University of Oregon; Title: A drunk walk in a drunk world; October 2015
18	B. University of Washington; Title: A drunk walk in a drunk world; October 2015
19	D. Mathématiques Appliquées à Paris 5; Title: Beyond the Gaussian universality class; June 2015
20	0. Temple University; Title: Beyond the Gaussian universality class; March 2015
21	. University of Geneva; Title: Integrable probability: beyond the Gaussian universality class; May 2014
22	2. University of Connecticut; Title: Integrable particle systems and Macdonald processes; September 2013

- Stanford University; Title: Integrable particle systems and Macdonald processes; February 2013
- 24. University of California Los Angeles; Title: Integrable particle systems and Macdonald processes; February 2013
- 25. University of Virginia; Title: Integrable particle systems and Macdonald processes; November 2012
- 26. University of Toronto; Title: Integrable probability; November 2012
- 27. Courant Institute, NYU; Title: Integrable probability; October 2012

Lecture Series and
Mini-Courses1. 50th Saint-Flour Probability Summer School, Saint-Flour France; Title: TBD; Orga-
nized by Christophe Bahadoran, Hacne Djellout, Arnaud Guillin.July 2020

- 2. 2020 PIMS Probability Summer School, Vancouver Canada; Title: Interacting particle systems, growth models, stochastic PDEs and directed polymers through the lens of the stochastic six vertex model; Organized by Omer Angel, Ed Perkins, Mathav Murugan, Louigi Addario-Berry, Alex Fribergh. June 2020
- 3. 3rd Haifa Probability School, Haifa Israel; Title: A tail of two times for the KPZ equation; Organized by Dima Ioffe, Oren Louidor, Leonid Mytnik, Lorenzo Zambotti. February 2020
- 4. 12th Mathematical Society of Japan-Seasonal Institute (MSJ-SI) "Stochastic analysis, random fields and integrable probability", Kyushu University Japan; Title *Stochastic vertex models*; Organized by Yuzuru Inahama, Takashi Kumagai, Hirofumi Osada, Tomohiro Sasamoto, Tomoyuki Shirai, Hideki Tanemura. August 2019
- 5. Interacting Particle Systems and Parabolic PDEs, Banff Research Station, Calgary Canada; Title Talk 1: Extreme value statistics for random walks in space-time random environments. Talks 2 and 3: Stochastic PDE limits for some interacting particle systems.; Organized by Julien Berestycki, Lenya Ryzhik, Leonid Mytnik, Jean-Michel Roquejoffre. August 2018
- School on Random Matrix Theory, University of Michigan, Ann Arbor, Michigan; Title Integrable Probability and KPZ; Organized by Jinho Baik and Rajesh Nadakuditi. June 2018
- Integrable Models in Statistical Mechanics, Limit Shapes and Combinatorics, St. Petersburg, Russia; Title Stochastic quantum integrable systems; Organized by Nicolai Reshetikhin. July 2017
- Probabilistic Perspectives in Nonlinear PDEs, Edinburgh, Scotland; Title Fluctuations and SPDE limit of interacting particle systems; Organized by Susan Friedlander, Nathan Glatt-Holtz, Tadahiro Oh, Oana Pocovnic, Georgie Richards. June 2017
- AMS Short Course on First and Last Passage Percolation Models, Altanta, Georgia; Title KPZ fluctuations in exactly solvable models; Organized by M. Damron, F. Rassoul-Agha, T. Seppalainen. January 2017
- London Mathematical Society Clay Mathematics Institute Research School. Title: *Integrable probability and the KPZ universality classes*; Organized by Alison Ethridge and Dmitry Belyaev July 2015
- 11. Institute Henri Poincare. Title: Integrable probability: Macdonald processes, quantum integrable systems and the Kardar-Parisi-Zhang university class; Organized by Cedric Villani May 2015
- 12. New Researcher Tutorials at Seminar on Stochastic Processes, University of Delaware. Title: Integrable probability and the Kardar-Parisi-Zhang universality class; Organized

by Nayantara Bhatnagar, Mokshay Madiman, Petr Plechac, Douglas Rizzolo April 2015

- 13. Introductory School for Institute Henri Poincare trimester on Disordered System, Random Spatial Processes and Applications, Centre International de Rencontres Mathematiques Luminy, Marseille France. Title: *Integrable probability*; Organized by Jean Phillip Bouchaud, Pierluigi Contucci, Cristian Giardina, Pierre Nolin, Vladas Sidoravicius and Vincent Vargas January 2015
- Summer College on Non-Linear Dynamics, Instabilities and Patterns in Classical and Quantum Systems, International Centre for Theoretical Physics (ICTP), Trieste Italy. Title: *Quantum Integrability and the Kardar-Parisi-Zhang universality class*; Organized by Pierre Le Doussal and Pasquale Calabreses July 2014
- 15. Summer School on Stochastic Partial Differential Equations, Mathematical Sciences Research Institute (MSRI). Title: *Integrable probability*; Organized by Yuri Bakhtin, Ivan Corwin and James Nolin July 2014
- 16. Paris France. Title: Quantum Integrability and the Kardar-Parisi-Zhang universality class; Organized by Lorenzo Zambotti June 2014
- 17. Summer School on Random Matrix Theory, Bielefeld University, Germany. Title: *Integrable particle systems and Macdonald processes*; Organized by Friedrich Goetze and Gernot Akemann August 2013
- Summer School on KPZ Equation and Rough Paths, Centre Henri Lebesgue, Rennes France. Title: Integrable probability and the KPZ equation; Organized by Arnaud Debussche, Mihai Gradinaru and Florent Malrieu
 June 2013
- Simons Symposium on the Kardar-Parisi-Zhang Equation, St. John, U.S. Virgin Island. Title: Integrability in the Kardar-Parisi-Zhang universality class; Organized by Alexei Borodin, Jeremy Quastel, Herbert Spohn. February 2013
- 20. Chiba University, Japan. Title: Symmetric functions, quantum many body systems and some of their applications in probability; Organized by Tomohiro Sasamoto May 2012
- 21. Grandes Matrices Aléatoires, Paris France. Title: *KPZ equation and its universality class*; Organized by Sandrine Péché and Alice Guionnet March 2012
- London Mathematical Society Invited Lectures (supplementary lectures for Alexei Borodin), Glasgow UK. Title: *Directed random polymers*; Organized by Misha Feigin March 2012
- 23. NSF Pan-American Advanced Studies Institute, Chile. Title: Exact solvability of the Kardar-Parisi-Zhang equation; Organized by Gérard Ben Arous, Pablo Ferrari, Charles Newman, Alejandro Ramírez, Vladas Sidoravicius, María Eulalia Vares January 2012
- 24. 4th La Pietra Week in Probability, Florence Italy. Title: *The Kardar-Parisi-Zhang* equation and universality class; Organized by Alberto Gandolfi, Fabio Martinelli, Charles Newman, Vladas Sidoravicius June 2011
- 25. Groupe de Travail at the Institut Herri Poincaré, Paris France. Title: *The Kardar-Parisi-Zhang equation and universality class*; Organized by Thierry Bodineau, Mustapha Mourragui and Ellen Saada June 2011
- 26. IMPA, Brazil. Title: The Kardar-Parisi-Zhang equation and universality class; Organized by Vladas Sidoravicius February 2011
- 27. U.C. Berkeley, Berkeley USA. Title: *The Kardar-Parisi-Zhang equation and universality class*; Organized by Fraydoun Rezakhanlou October-November 2010

Conference Lectures	 Random Matrix Theory and beyond, Stockholm Sweden; Title: <i>TBD</i>; Organized by Sunil Chhita, Maurice Duits, Erik Duse, Gaultier Lambert, Mustazee Rahman and Kevin Schnelli.
	 Second Conference on New Developments in Probability, Tulane; Title: TBD; Orga- nized by Eric Vanden-Eijnden, Nathan Glatt-Holtz, Kay Kirkpatrick, Scott McKinley, Tai Melcher and Kavita Ramanan. May 2020
	3. Asymptotic Algebraic Combinatorics, IPAM, UCLA; Title: <i>TBD</i> ; Organized by Jonathan Novak, Igor Pak, Greta Panova. February 2020
	 Symposium on Random Matrices in Biology, Columbia; Title: Products of thin random matrices and random walks in random media; Organized by Andrew Blumberg, Ivan Corwin, Raul Rabadan. November 2019
	 Faces of Integrability, CRM Montreal; Title: A twisted tail of KPZ, Coulomb gas and Painleve.; Organized by Jacques Hurtubise, Nicolai Reshetikhin, Lauren Williams. May 2019
	 Francois Dunlop Birthday Conference, Florence Italy; Title: Some SPDE limits of interacting particle systems; Organized by Thierry Gobron, Francesca R. Nardi, Pierre Picco, Ellen Saada. April 2019
	7. Amir Dembo Birthday Conference, Stanford; Title: <i>Tails of KPZ</i> ; Organized by Jason Miller, Andrea Montanari, Scott Sheffield, Nike Sun. December 2018
	8. Scaling limits, rough paths, quantum field theory: Conclusions and future directions, Cambridge UK; Title: <i>The dynamic ASEP</i> ; Organized by Antti Kupiainen, Felix Otto and Jeremy Quastel. December 2019
	9. Mehran Kardar Birthday Conference, MIT; Title: How to solve the KPZ equation; Organized by Leon Balents. June 2018
	 Fourth Duke Mathematical Journal Conference, Duke; Title: Integrable probability and stochastic PDEs; Organized by Robert Bryant, Richard Hain, Lenhard Ng, Colleen Robles, Jonathan Wahl.
	 International Workshop on Classical and Quantum Integrable Systems, Dubna Russia; Title KPZ Fluctuations for some stochastic vertex models and Macdonald processes; Organized by Alexei Isaev, Vyacheslav Spiridonov, Sergei Derkachov, Pavel Pyatov, Anastasia Trofimova.
	 Thera Stochastics – A Mathematics Conference in Honor of Ioannis Karatzas, San- torini Greece; Title <i>Fluctuations of interacting particle systems</i>; Organized by Michael Anthropelos, Kostas Kardaras, Marcel Nutz, Johannes Ruf. June 2017
	13. 117th Statistical mechanics conference, Rutgers, New Jersey; Title: Integrability and random interface growth; Organized by Joel Lebowitz. May 2017
	 Asymptotic Representation Theory, Institute Henri Poincare, Paris, France; Title Half- space integrable probability and KPZ; Organized by Valentin Feray, Pierre-Loic Meliot. February 2017
	 Recent advances in mathematical physics, Tokyo, Japan; Title: Stochastic quantum in- tegrable systems; Organized by M.Jimbo, A.Kuniba, T.Sasamoto, S.Kakei, Y.Komori, K.R. Ito, T.Eguchi, Y.Kazama, Y.Tachikawa, Y.Hikida. January 2017
	 AMS Special Session on Random Matrices, Random Percolation and Random Se- quence Alignments, Atlanta, Georgia; Title A drunk walk in a drunk world; Organized by M. Damron, R. Gong. January 2017
	17. Clifford lectures conference for Pierre van Moerbeke, Tulane; Title Integrable proba- bility; Organized by Victor Moll. November 2016

- Stochastic Partial Differential Equations, Simons Center, Stonybrook New York; Title: *A drunk walk in a drunk world*; Organized by Martin Hairer. May 2016
- Infinite Analysis 2016: New Developments in Integrable Systems, Osaka, Japan; Title: Stochastic quantum integrable systems and the KPZ class; Organized by Atsuo Kuniba, Tomoki Nakanishi, Masato Okado, Tomohiro Sasamoto, Yoshihiro Takeyama. March 2016
- 20. Six-vertex models, dimers, shapes, and all that, Simons Center, Stonybrook New York; Title: *Stochastic higher-spin vertex models and their self-duality*; Organized by Pavel Bleher, Vladimir Korepin and Bernard Nienhuis. March 2016
- 21. FrankFest: Conference on Isoperimetric Problems and Manifolds with Density, Williamstown Massachusetts; Title: Integrable probability and the KPZ universality class; Organized by Colin Adams and Cesar Silva. February 2016
- 22. Random processes and random media: A conference on the occasion of Alain-Sol Sznitman's 60th birthday, Zurich, Switzerland; Title: The exactly solvable beta random walk in random environment; Organized by Gerard Ben Arous, Erwin Bolthausen, Vladas Sidoravicius, Wendelin Werner, Tristan Riviere. January 2016
- 23. Random matrices, random growth processes and statistical physics, Stonybrook New York; Title: *Fluctuations at the leading edge and Pfaffian processes*; Organized by Brian Rider, Dan Romik, Alexander Soshnikov. September 2015
- 24. Random Interfaces and Integrable Probability, Galileo Galilei Institute, Florence, Italy; Title *Stochastic quantum integrable systems*; Organized by Alexei Borodin, Jérémie Bouttier, Filippo Colomo, Richard Kenyon. June 2015
- 25. Centre Research Mathematics Workshop on Asymptotics in Integrable Systems, Random Matrices, Random Processes and Universality, Montreal, Canada; Title: *Stochastic quantum integrable systems*; Organized by Jinho Baik, Marco Bertola, Ken McLaughlin, Thomas Kriecherbauer, Alexander Tovbis. June 2015
- 26. 113th Statistical mechanics conference, Rutgers, New Jersey; Title: Stochastic quantum integrable systems; Organized by Joel Lebowitz. May 2015
- 27. Institute for Computational and Experimental Research in Mathematics (ICERM) workshop on Limit Shapes, Providence, Rhode Island; Title: *Stochastic quantum integrable systems*; Organized by Marek Biskup, Alexei Borodin, Beatrice de Tiliere, Richard Kenyon, Senya Shlosman April 2015
- Institute Henri Poincare Conference on Interacting Particle Systems and Non-Equilibrium Dynamics, Paris, France; Title: Stochastic quantum integrable systems; Organized by Jean-Philippe Bouchaud, Pierluigi Contucci, Cristian Giardina, Pierre Nolin, Vladas Sidoravicius, Vincent Vargas March 2015
- 29. Fourth Abel Conference: A Celebration of Yakov G. Sinai, Institute for Mathematics and its Applications, Minnesota; Title: *Fluctuations of the stationary stochastic Burgers / Kardar-Parisi-Zhang equations*; Organized by Leonid Bunimovich, Dmitry Dolgopyat, Helge Holden, Konstantin Khanin October 2014
- 30. Interface fluctuations and KPZ universality class unifying mathematical, theoretical, and experimental approaches, Kyoto, Japan; Title: Macdonald processes and quantum integrable systems; Organized by Hisao Hayakawa, Takashi Imamura, Tomohiro Sasamoto, Kazumasa Takeuchi, Yu Watanabe August 2014
- 31. 16th Rencontres Mathematiques de Rouen, Rouen, France; Title: Macdonald processes, quantum integrable systems and the KPZ universality class; Organized by Jean-Baptiste Bardet, Olivier Benois, Pierre Calka, Claudio Landim, Mustapha Mourragui, and Ellen Saada. June 2014

- 32. Stochastic analysis: around the KPZ universality class, Oberwolfach, Germany; Title: Macdonald processes, quantum integrable systems and the KPZ universality class; Organized by Alice Guionnet, Martin Hairer, Wendelin Werner. June 2014
- 33. Workshop on Random Matrices and Random Systems, Institute for Advanced Studies, Princeton New Jersey; Title: *Plancherel theory for ASEP, XXZ and the* (q, μ, ν) -*Boson process*; Organized by Gerard Ben Arous, Kurt Johansson, and Horng-Tzer Yau. April 2014
- 34. Rough Paths: Theory and Applications, Institute for Pure and Applied Mathematics, Los Angeles California; Title: *KPZ line ensemble*; Organized by Marek Biskup, Dan Crisan, Peter Fritz, Massimiliano Gubinelli, and Martin Hairer. January 2014
- Cornell Summer School, Ithaca New York; Title ASEP, q-TASEP and integrable quantum many body systems; Organized by Laurent Saloff-Coste and Lionel Levine. August 2013
- 36. Random Matrix Theory and Applications, University of Michigan, Ann Arbor Michigan; Title: Integrable particle systems and Macdonald processes - part I; Organized by Jinho Baik. June 2013
- 37. Workshop on Analytical Aspects of Mathematical Physics, Zurich Switzerland; Title: Integrable particle systems and Macdonald processes; Organized by Jürg Fröhlich, Gian Michele Graf and Arthur Jaffe. May 2013
- 38. Emerging Trends in Probability Theorey, Max Planck Institute for Mathematics in the Sciences Conference, Leipzig Germany; Title: Integrable particle systems and Macdonald processes; Organized by Erwin Bolthausen, Juergen Jost, Wolfgang Hackbusch and Felix Otto. April 2013
- 39. Random polymers, Eurandom Eindhoven Netherlands; Title: A rigorous replica trick for directed polymers; Organized by Frank den Hollander, Vladas Sidoravicius, Stu Whittington. January 2013
- 40. 108th Statistical mechanics conference, Rutgers, New Jersey; Title: Integrability in the Kardar-Parisi-Zhang universality class; Organized by Joel Lebowitz. December 2012
- 41. Integrable Systems, Growth Processes and KPZ Universality, Banff Canada; Title: *From duality to determinants for ASEP*; Organized by Estelle Basor, John Harnad, Jeremy Quastel, Timo Seppalainen, Craig Tracy September 2012
- Interacting Particle Systems and Related Topics, Florence Italy; Title: From duality to determinants for ASEP; Organized by A. Asselah, P. Dai Pra, G. Giacomin, P. Picco, E. Saada, L. Zambotti. August 2012
- Discrete Probability on Surfaces, Mathematical Association of America Mathfest invited session, Madison, Wisconsin; Title: Beyond the Gaussian universality class; Organized by Richard Kenyon. August 2012
- 44. Stochastic Partial Differential Equations with Applications, World Congress in Probability and Statistics invited session, Istambul, Turkey; Title: *The statistics of the Kardar-Parisi-Zhang equation*; Organized by Martin Hairer. July 2012
- 45. Interacting Particle Systems, World Congress in Probability and Statistics invited session, Istambul, Turkey; Title: From duality to determinants for ASEP; Organized by Timo Seppäläinen. July 2012
- 46. Random Polymers, Institute for Mathematical Sciences of the National University of Singapore; Title: Directed random polymers and Macdonald processes; Organized by Frank den Hollander, Rongfeng Sun and Nikolaos Zygouras. May 2012

- 47. Random Walks and Random Media, Mathematical Sciences Research Institute, Berkeley California; Title: Directed random polymers and Macdonald processes; Organized by Noam Berger, Nina Gantert, Andrea Montanari, Alain-Sol Sznitman, and Ofer Zeitouni. May 2012
- 48. UK Easter Probability Meeting, Warwick, UK; Title: Beyond the Gaussian universality class; Organized by Sigurd Assing, David Elworthy, Christina Goldschmidt, Ben Hambly, Martin Hairer, Wifred Kendall, Roman Kotecky, Xue-Mei Li, Neil OConnell, Roger Tribe, Jon Warren. March 2011
- Interacting Particle Systems, Growth Models and Random Matrices, Warwick Symposium on Probability, Warwick, UK; Title: *Directed random polymers and Mac*donald processes; Organized by Neil O'Connel, Janosch Ortmann, and Jon Warren. March 2011
- 50. Disordered Media, Warwick Symposium on Probability, Warwick, UK; Title: *The Airy line ensemble: continuum statistics and Gibbs property*; Organized by Ben Hambly, Neil O'Connell and Nikolaos Zygouras. September 2011
- 51. 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
- 52. 35th Conference on Stochastic Processes and their Applications, Random Matrix session, Oaxaca, MX; Title: *Directed polymers, the KPZ equation and exactly solvable* systems; Organized by Brian Rider June 2011
- 53. 4th La Pietra week in Probability at Finaly, Florence Italy. Title: *Continuum statistics and properties for the Airy*₂ *process*; Organized by Alberto Gandolfi, Fabio Martinelli, Charles Newman, Vladas Sidoravicius June 2011
- 54. Stochastic Analysis, Oberwolfach, Germany; Title: Exactly solvable finite temperature polymers and the geometric RSK correspondence; Organized by Alice Guionnet, Wendelin Werner and Ofer Zeitouni June 2011
- 55. Random Environments, Cornell; Title: Probability Distribution of the Free Energy of the Continuum Directed Random Polymer in 1 + 1 dimensions; Organized by Jon Peterson and Firas Rassoul-Agha May 2011
- 56. Workshop on Interacting Processes in Random Environments, Fields Institute Toronto, Canada; Title: Probability Distribution of the Free Energy of the Continuum Directed Random Polymer in 1 + 1 dimensions; Organized by Tom Alberts, Ken Alexander, Dima Ioffe and Timo Seppäläinen February 2011
- 57. 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
- 58. MSRI/Evans Lecture Series, Berkeley; Title: *Beyond the Gaussian universality class*; Organized by Jinho Baik, Alexei Borodin, Percy Deift, Alice Guionnet, Craig Tracy and Pierre van Moerbeke September 2010
- 59. 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
- 60. MSRI Random Matrix summer workshop, Berkeley; Organized by Jinho Baik, Percy Deift, Toufic Suidan and Brian Rider July 2009
- 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

Seminar Lectures 1. Marseilles Dynamique, Arithmétique, Combinatoire; Title: Random permutations, partitions and PDEs. March 2019

- 2. Centre International de Rencontres Mathmatiques; Title: TBD. March 2019
- 3. Rutgers Mathematical Physics Seminar; Title: Extreme value statistics for diffusions in space-time random media. October 2018
- Princeton Ergodic Theory and Statistical Mechanics Seminar; Title: A tail of KPZ. February 2018
- 5. U.C. Davis Mathematical Physics and Probability Seminar; Title: Transversal fluctuations for ASEP and Hall-Littlewood processes. October 2017
- 6. Stanford Operations Research and Institute for Computational and Mathematical Engineering Joint Seminar; Title: Beyond the Gaussian universality class: traffic, growth, matrices and their universal fluctuations; October 2017
- 7. Columbia Applied Probability and Risk Seminar; Title: Beyond the Gaussian universality class. March 2017
- 8. UCLA Probability Seminar; Title: Open ASEP in the weakly asymmetric regime. October 2016
- 9. MIT Probability Seminar; Title: Dynamics preserving two-dimensional Gibbs ensembles and Macdonald processes. May 2016
- Caltech, Mathematical Physics Seminar; Title: Stochastic quantum integrable systems. February 2016
- 11. University of Maryland Probability Seminar; Title: Stochastic quantum integrable systems. December 2015
- 12. University of Oregon, Probability Seminar; Title: Fluctuations at the leading edge and Pfaffian processes. October 2015
- 13. University of Illinois, Urban Champaign Probability Seminar; Title: Stochastic quantum integrable systems. October 2015
- 14. Temple University and University of Pennsylvania Joint Probability Seminar; Title: Stochastic quantum integrable systems. March 2015
- 15. Columbia Informal Mathematical Physics Seminar; Title: Stochastic quantum integrable systems. March 2015
- 16. Harvard Probability Seminar; Title: Stochastic quantum integrable systems. March 2015
- 17. ICERM Phase Transitions and Emergent Properties Seminar; Title: Stochastic quantum integrable systems, part II. February 2015
- Brown University Probability Seminar; Title: Stochastic quantum integrable systems, part I. February 2015
- 19. Princeton Mathematical Physics Seminar; Title Stochastic higher spin vertex models on the line. December 2014
- 20. University of Virginia; Title: Spectral theory and duality for Bethe ansatz solvable interacting particle systems. November 2014
- 21. Princeton Probability Seminar; Title Fluctuations of the stationary Kardar-Parisi-Zhang equations. November 2014
- 22. University of Texas Mathematical Physics Seminar; Title Beyond the Gaussian universality class. October 2014
- 23. Columbia-Courant Joint Probability Seminar; Title Spectral theory and duality for Bethe ansatz solvable interacting particle systems. October 2014

- 24. City University of New York Probability Seminar; Title: Integrable probability: beyond the Gaussian universality class. September 2014
- 25. Laboratoire de Probabilités Universités Paris 6 et Paris 7 Seminaire de Probabilites; Title: Macdonald processes, quantum integrable systems and the Kardar-Parisi-Zhang universality class. June 2014
- 26. Weizmann Institute; Title: Macdonald processes, quantum integrable systems and the Kardar-Parisi-Zhang universality class. June 2014
- 27. Ecole Normal Superior Séminaire des Mathématiques; Title: Beyond the Gaussian universality class. May 2014
- 28. Zurich Probability Seminar; Title: Spectral theory of ASEP, XXZ and the q-Hahn Boson process. May 2014
- 29. University of Geneva Mathematical Physics Seminar; Title: Spectral theory of ASEP, XXZ and the q-Hahn Boson process. May 2014
- 30. Institute for Advanced Studies Non-equilibrium Dynamics and Random Matrices Seminar: Title: *KPZ line ensemble*. December 2013
- 31. U.C. Berkeley Probability Seminar; Title: Integrable particle systems and Macdonald processes. September 2013
- 32. U.C. Davis Mathematical Physics and Probability Seminar; Title: Spectral theory for the q-Boson particle system. September 2013
- 33. Columbia University Probability Seminar; Title: Spectral theory for the q-Boson particle system. September 2013
- 34. Zurich Probability Seminar; Title: ASEP, q-TASEP and integrable quantum many body systems. May 2013
- 35. Brown University Probability Seminar; Title: Integrable particle systems and Macdonald processes. April 2013
- 36. MIT Combinatorics Seminar; Title: Integrable particle systems and Macdonald processes. April 2013
- 37. MIT Macdonald Processes Seminar; Title: Delta Bose gas and directed polymers and Discrete and q-deformed Bose gases, particle systems and directed polymers. March 2013
- 38. Harvard Probability Seminar; Title: From duality to determinants for ASEP. March 2013
- 39. Columbia University Probability Seminar; Title: Integrable particle systems and Macdonald processes. December 2012
- 40. University of Virginia; Title: From duality to determinants for ASEP. November 2012
- 41. Brown University Discrete Math Seminar; Title: From duality to determinants for ASEP. November 2012
- 42. Georgia Tech Probability Seminar; Title: Beyond the Gaussian university class. October 2012
- 43. Northeastern University Applied and Interdisciplinary Mathematics Seminar; Title: Beyond the Gaussian university class. October 2012
- 44. Boston University Probability Seminar; Title: Beyond the Gaussian university class. October 2012
- 45. University of Utah Stochastics Seminar; Title: Directed random polymers and Macdonald processes. September 2012
- 46. University of Maryland Probability Seminar; Title: Directed random polymers and Macdonald processes. September 2012

- 47. Tokyo University Integrable Systems Seminar; Title: Integrability in the Kardar-Parisi-Zhang universality class. May 2012
- 48. Columbia Probability Seminar; Title: Directed random polymers and Macdonald processes. April 2012
- 49. Harvard Probability Seminar; Title: *Gibbsian line ensembles*. March 2012
- MIT Probability Seminar; Title: Directed random polymers and Macdonald processes. March 2012
- 51. University of Chicago Probability Seminar; Title: Directed random polymers and Macdonald processes. March 2012
- 52. University of British Columbia Probability Seminar; Title: Directed random polymers and Macdonald processes. March 2012
- 53. Harvard Probability Seminar; Title: Quantum many body systems solvable via a new integral ansatz. March 2012
- 54. Rutgers Mathematical Physics Seminar; Title: Directed random polymers and Macdonald processes. February 2012
- 55. University of Michigan Combinatorics Seminar; Title: Tropical combinatorics and Whittaker functions. February 2012
- 56. University of Michigan Analysis/Probability Seminar; Title: Directed random polymers and Macdonald processes. February 2012
- 57. Harvard Random Matrix Seminar; Title: Directed random polymers and Macdonald processes. February 2012
- Institute for Advanced Studies Joint Princeton Mathematical Physics Seminar; Title: Macdonald processes and some applications in probability and integrable systems. November 2011
- 59. Duke University Probability seminar; Title: Brownian Gibbs line ensembles. November 2011
- 60. U.C. Berkeley Statistics seminar; Title: *Brownian Gibbs line ensembles*. November 2011
- 61. U.C. Berkeley Combinatorics seminar; Title: *Tropical combinatorics and Whittaker* functions. October 2011
- Courant Institute Probability Seminar; Title: Brownian Gibbs line ensembles. October 2011
- 63. Boston University Center for Polymer Studies seminar; Title: *The continuum directed random polymer*. September 2011
- 64. MIT Probability seminar; Title: Brownian Gibbs line ensembles. September 2011
- 65. Microsoft Research Theory group, Redmond Washington; Title: Beyond the Gaussian universality class. July 2011
- 66. Laboratoire de Probabilités Universités Paris 6 et Paris 7 Seminaire de Probabilites; Title: The Kardar-Parisi-Zhang equation. June 2011
- 67. Courant Institute Probability Seminar; Title: Harmonic analysis of the geometric Robinson-Schensted-Knuth correspondence via Whittaker functions. May 2011
- 68. Harvard Random Matrix Seminar; Talk 1 title: Harmonic analysis of the geometric Robinson-Schensted-Knuth correspondence via Whittaker functions; Talk 2 title: In pursuit of universality and solvability for the Kardar-Parisi-Zhang equation and class. May 2011

- Brown University Discrete Mathematics Seminar; Title: Probability Distribution of the Free Energy of the Continuum Directed Random Polymer in 1 + 1 dimensions. May 2011
- 70. University of Rochester Probability Seminar; Title: Probability Distribution of the Free Energy of the Continuum Directed Random Polymer in 1 + 1 dimensions. April 2011
- 71. Courant Institute Probability Seminar; Title: Probability Distribution of the Free Energy of the Continuum Directed Random Polymer in 1 + 1 dimensions. March 2011
- 72. Princeton University Ergodic Theory and Statistical Mechanics Seminar; Title: Probability Distribution of the Free Energy of the Continuum Directed Random Polymer in 1 + 1 dimensions. March 2011
- 73. Institute for Advanced Studies Analysis/Mathematical Physics Seminar; Title: The KPZ equation and universality class February 2011
- 74. EURANDOM Random Spatial Structures program Seminar; Title: Beyond the Gaussian universality class. January 2011
- 75. Delft (Netherlands) Probability Seminar; Title: Beyond the Gaussian universality class. January 2011
- 76. Universite Catholique de Louvain Seminar; Title: Beyond the Gaussian universality class. January 2011
- 77. University of Warwick Reading seminar on Random Matrices; Title: An introduction to the KPZ equation and universality class. January 2011
- 78. Weizmann Institute Probability Seminar; Title: The KPZ equation: Beyond the Gaussian universality class. January 2011
- 79. Tel Aviv University Horowitz Seminar on Probability, Ergodic Theory and Dynamical Systems; Title: *Beyond the Gaussian universality class*. January 2011
- MIT Special Mathematics Seminar; Title: The KPZ universality class and equation. December 2010
- 81. UC Irvine Probability Seminar; Title: Beyond the Gaussian universality class. December 2010
- UCLA Probability Seminar; Title: The KPZ equation and universality class. December 2010
- 83. Columbia Probability Seminar; *Beyond the Gaussian universality class*. November 2010
- 84. Stanford Probability Seminar; Title: *How to solve the Kardar-Parisi-Zhang stochastic PDE.* October 2010
- 85. U.C. Davis Mathematical Physics and Probability Seminar; Title: *How to solve the Kardar-Parisi-Zhang stochastic PDE*. October 2010
- 86. University of British Columbia Probability Seminar; Title: The KPZ universality class and equation. October 2010
- Toronto Probability Seminar; Title: Fluctuations for the KPZ universality class. July 2010
- 88. City University of New York Probability Seminar; Title: Fluctuations in traffic flow, crystal growth and random matrices. February 2010
- 89. Courant Institute Probability Seminar; Title: Fluctuations of the totally asymmetric simple exclusion process. February 2010
- 90. University of Utah Stochastics Seminar; Title: Fluctuations in the height of random crystals. January 2010

	91. MIT Probability Seminar; Title: Fluctuations in traffic flow, crystal growth and ran- dom matrices. November 2009	
	92. University of Wisconsin Probability Seminar; Title: Directed last passage percolation with step-function boundary conditions. October 200	
	93. Harvard Random Matrix Seminar; Title: Fluctuations in traffic flow, crystal grows and random matrices. September 200	
	94. Courant Random Maps and Random Matrices Seminar; Three lectures: (1): Intra- duction to maps. (2-3) Matrix integrals and map enumeration. 200	
	 95. 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 initic conditions. (9-10) Random Processes Associated with TASEP and LPP. (11) Current Fluctuations of SSEP. 2008-200 	al al nt
Contributed Talks	 Clay Mathematics Institute 2010 Summer School, Buzios, Brazil. July 201 	.0
	2. Orthogonal Polynomials, applications in Statistics and Stochastic Processes workshop Warwick, UK. July 201	
	3. School of Analysis with Applications, Tucson, Arizona. March 201	.0
	4. Frontier Probability Days, Utah. March 200)9
Non-Academic positions		
	 Teacher, The Math Circle, Cambridge, MA Nuclear modeling division, Anatech Corporation, Poughkeepsie, NY 2005-200 2002-200 	
Courses taught	 Fall 2016: Mathematics G6151, Graduate Analysis and Probability I (Columbia University); Statistics G9301, Seminar Probability Theory (Columbia University). Fall 2017: Mathematics G6151, Graduate Analysis and Probability I (Columbia University); Statistics G9301, Seminar Probability Theory (Columbia University). Fall 2018: Statistics G9301, Seminar Probability Theory (Columbia University). Spring 2019: Mathematics G6153, Graduate Probability II (Columbia University); Statistics G9301, Seminar Probability II (Columbia University). Fall 2019: Mathematics G6151, Graduate Analysis and Probability I (Columbia University); Statistics G9301, Seminar Probability Theory (Columbia University). Fall 2019: Mathematics G6151, Graduate Analysis and Probability I (Columbia University); Statistics G9301, Seminar Probability Theory (Columbia University). 	