

Ryan J. Giordano

CONTACT INFORMATION	1515 Grant St. Berkeley, CA, 94703 USA	✉ rgiordan@mit.edu 🌐 rgiordan.github.io ☎ (805) 501-6754	
EDUCATION	Massachusetts Institute of Technology , Cambridge, MA USA <i>Department of EECS, Computer Science & Artificial Intelligence Lab</i> Postdoctoral Research Fellow. Advisor: Tamara Broderick		2019–present
	University of California , Berkeley, CA USA Ph.D., Statistics. Advisors: Michael I. Jordan, Jon McAuliffe, Tamara Broderick		2013–2019
	London School of Economics , London, UK MSc., Econometrics.		2007–2009
	University of Illinois , Urbana-Champaign, IL, USA BA., Mathematics. BS., Theoretical and Applied Mechanics.		1997–2002 1997–2002
PROFESSIONAL EXPERIENCE	Google Inc. , Mountain View, CA USA Senior Engineer, Quantitative Analysis		2009–2013
	Macquarie Group , London, UK Risk Management Intern		2008
	United States Peace Corps , Kokshetau, KZ Education Volunteer, successful completion of service		2004–2006
	Hewlett-Packard , Boise, ID Lifetest Coordinator and Reliability Engineer		2002–2004
HONORS AND AWARDS	Notable Paper Award, Artificial Intelligence and Statistics (AISTATS) (2019) Travel Award, Artificial Intelligence and Statistics (AISTATS) (2019) Travel Award, Bayesian Nonparametrics Conference (2019) Student Paper Award, ASA Section on Bayesian Statistical Science (2018) Travel Award, International Society for Bayesian Analysis (ISBA) (2018) Berkeley Institute for Data Science Fellow (2017-19) Junior Travel Support Grant, International Society for Bayesian Analysis (ISBA) Bayes-Comp (2016) Spotlight Paper, Neural Information Processing Systems (NeurIPS) (2015) Outstanding Graduate Student Instructor Award (2015) Travel Award, Neural Information Processing Systems Workshop on Variational Inference (2014) Hertz Foundation Graduate Fellowship Finalist (2014) Google Operating Committee Award (2010) Advanced-high speaker of Russian in Peace Corps Aptitude Test (2006) Advanced-mid speaker of Kazakh in Peace Corps Aptitude Test (2006) Selected as a Peace Corps “Success Story” for a congressional report (2005) Best Project, Undergraduate Mechanics Research Conference (2002) Best Presentation, Undergraduate Mechanics Research Conference (2002) Seely, Sinclair, Stippes, TAM Merit Scholarships (1998-2002)		

PREPRINTS

- T. D. Nguyen, **R. J. Giordano**, L. Masoero, L. Mackey & T. Broderick (2020). Independent finite approximations for Bayesian nonparametric inference: construction, error bounds, and practical implications. *arXiv:2009.10780 [stat.ME]*. [pdf]

PUBLICATIONS

20. A. K. Dhaka, A. Catalina, M. R. Andersen, M. Magnusson, **R. J. Giordano**, A. Vehtari (2020). Robust, Accurate Stochastic Optimization for Variational Inference In *Proc. of the 34th Annual Conference on Neural Information Processing Systems (NeurIPS)*. [pdf]
19. **R. J. Giordano**, M. Kasprzak, T. C. Campbell & T. Broderick (2020). Practical posterior error bounds from variational objectives. In *Proc. of the 22nd International Conference on Artificial Intelligence and Statistics (AISTATS)*. [pdf]

★ = contributed equally

WORKSHOP PAPERS

3. B. Trippe, **R. J. Giordano** & T. Broderick (2018). Fast Bayesian Inference in GLMs with Low Rank Data Approximations. In *Symposium on Advances in Approximate Bayesian Inference*.
2. **R. J. Giordano**, L. Masoero, L. Mackey & T. Broderick (2017). Generic finite approximations for practical Bayesian nonparametrics. In *NeurIPS 2017 Workshop on Advances in Approximate Bayesian Inference*.

MISCELLANEA

3. **R. J. Giordano**, M. Kasprzak, T. C. Campbell & T. Broderick (2018). Practical bounds on the error of Bayesian posterior approximations: A nonasymptotic approach. *arXiv:1809.09505 [stat.TH]*. [pdf]
2. **R. J. Giordano**, A. Saeedi & M. J. Johnson (2014). Detailed Derivations of Small-variance Asymptotics for some Hierarchical Bayesian Nonparametric Models. *arXiv:1501.00052 [stat.ML]*. [pdf]
1. **R. J. Giordano** & F. Wood (2014). Infinite structured hidden semi-Markov models. *arXiv:1407.0044 [stat.ME]*. [pdf]

INVITED TALKS

Previous

Using Bagged Posteriors for Robust Inference

Northeastern University, Boston, MA
SPIRAL Seminar Series

February 2020

Oxford University, Oxford, UK
Statistics Seminar

October 2019

Bristol University, Bristol, UK
Data Science Seminar
Statistics Seminar

October 2019

Massachusetts Institute of Technology, Cambridge, MA
Doctoral Seminar in Statistics

November 2019

Broad Institute of MIT and Harvard, Cambridge, MA
Models, Inference, and Algorithms

December 2019

Scalable, Reliably Accurate Bayesian Inference via Approximate Likelihoods and Random Features

Google AI, Cambridge, MA

February 2019

Broad Institute of MIT and Harvard, Cambridge, MA

February 2019

Northeastern University, Boston, MA

February 2019

	Boston University, Boston, MA	January 2019
	<i>Finite-dimensional Approximations of Completely Random Measures</i>	
	Stochastic Processes and Applications (SPA), Gothenburg, Sweden	June 2018
	<i>Scaling Bayesian Inference by Constructing Approximating Exponential Families</i>	
	Boston Bayesian Meetup, Boston, MA	April 2018
	Schlumberger Doll Research, Cambridge, MA	April 2018
	Raytheon BBN Technologies, Cambridge, MA	February 2018
CONTRIBUTED TALKS	Previous	
	<i>Using Bagged Posteriors for Robust Inference</i>	
	Bayes Comp, Gainesville, FL	January 2020
PROFESSIONAL SERVICE	Student Leadership	
	<i>University of California, Berkeley, Statistics Department</i>	
	• Diversity Taskforce Member	2018-2019
	• Graduate Student Mentor	2017-2019
	• Diversity Committee Member	2017
	• Co-organizer of the Gender and Diversity Roundtable	2016-2018
	• Student Seminar Committee Member	2014-2017
	<i>Univeristy of Illinois, Urbana-Champaign, Engineering Mechanics Department</i>	
	• President, Student Society for Experimental Mechanics	2000-2002
	• Organizer, Free University Opera for Engineering Students	2001-2002
	Journal Reviewing	
	• Journal of Machine Learning Research	
	Conference Reviewing	
	• Advances in Neural Information Processing Systems (NeurIPS)	
	• International Conference on Machine Learning (ICML)	
	• International Conference on Artificial Intelligence and Statistics (AISTATS)	
TEACHING	<i>University of California, Berkeley, USA</i>	
	• Teaching Assistant, STAT215 Applied Statistics (Graduate-level)	Fall 2014
	<i>Kokshetau Elementary School #3, Kokshetau, Kazakhstan</i>	
	• Elementary school teacher of mathematics and English as a second language	2004-2006
	<i>Univeristy of Illinois, Urbana-Champaign, USA</i>	
	• Teaching Assistant, Mechanics of Materials Lab	Fall 1999
	• Teaching Assistant, Introduction to Statics	Spring 1999