## Haosui Duanmu

Contact Information	Department of Economics University of California, Berkeley Phone: (647) 975-7779 E-mail: duanmuhaosui@berkeley.edu Website: hyperfinite.net
Research Interests	mathematical statistics, stochastic processes and probability theory, statistical decision theory, nonstandard analysis, point set topology
Employment	University of California, Berkeley, Berkeley, California USA
	<ul><li>Postdoctoral Fellow., Department of Economics (March 2018–)</li><li>Advisors: Robert M. Anderson</li></ul>
Education	University of Toronto, Toronto, Ontario Canada
	Ph.d., Department of Statistical Sciences, December 2017
	<ul> <li>Department of Statistical Sciences Doctoral Award</li> <li>Thesis Topic: Applications of Nonstandard Analysis to Markov Processes and Statistical Decision Theory</li> <li>Advisors: Jeffrey S. Rosenthal, Daniel M. Roy and William Weiss</li> </ul>
	M.S., Department of Statistical Sciences, May 2012
	<ul> <li>B.S., Department of Mathematics, May 2011</li> <li>Graduate with High Distinction</li> <li>Programme: Mathematics and its Application to Finance (specialist)</li> </ul>
PUBLICATIONS	Refereed Publications:
	1. Haosui Duanmu, Franklin D. Tall, and Lyubomyr Zdomskyy. "Productively Lin- delöf and Indestructibly Lindelöf Spaces."
	Topology and its Applications, 160(18): 2443 (2013)
	2. Haosui Duanmu, William Weiss. "Finitely-additive, Countably-additive and In- ternal Probability Measures."
	Commentationes Mathematicae Universitatis Carolinae, Vol. 59, No. 4 (2018), pp. 467-485.
	3. Haosui Duanmu, Jeffrey S. Rosenthal, and William Weiss "Ergodicity of Markov Processes via Nonstandard Analysis." <i>Memoirs of the American Mathematical</i> <i>Society</i> , Accepted.
	Submitted Manuscript
	• Haosui Duanmu, Daniel M. Roy. "On Extended Admissible Procedures and their Nonstandard Bayes Risk." <i>The Annals of Statistics</i> , Major Revision.
	• Robert M. Anderson, Haosui Duanmu, and Aaron Smith. "Mixing Times and Hitting Times for General Markov Processes." <i>Israel Journal of Mathematics</i> , Submitted.

	• Robert M. Anderson, Haosui Duanmu, and Aaron Smith. "Mixing and Aver- age Mixing Times for General Markov Processes." <i>Proceedings of the American</i> <i>Mathematical Society</i> , Submitted.
	• Robert M. Anderson, Haosui Duanmu, and Aaron Smith. "Mixing and Hitting Times for Gibbs Samplers and Other Non-Feller Processes." <i>Annales de lInstitut</i> <i>Henri Poincar</i> , Submitted.
	Manuscript in Preparation
	• Haosui Duanmu, Daniel M. Roy, and Aaron Smith. "Existence of Matching Priors for Compact Parameter Spaces." In Preparation.
	• Robert M. Anderson, Haosui Duanmu, Daniel M. Roy, and Qiang Sun. "A Non-standard Minimax Theorem." In Preparation.
	• Robert M. Anderson, Haosui Duanmu, Aaron Smith and Jun Yang. "Drift, Mi- norization and Hitting Times." In Preparation.
Awards	Student Award
	• NSERC postdoctoral fellowship (ranked 3 out of 43 applicants in Scholarship and Fellowship Committee for Mathematical Science)
	Natural Science and Engineering Research Council of Canada 2019.
	• Department Doctoral Award
	Department of Statistical Sciences, University of Toronto 2018.
	• Coxeter Scholarship for Mathematics Department of Mathematics, University of Toronto 2010.
	• Dean's List Award
	University of Toronto, 2008–2011.
	Presentation Award
	• Best Student Poster Presentation Award,
	University of Toronto Statistical Science Research Day 2017.
	• Best Poster of the Statistical Society of Canada Student Conference Award,
	Statistical Society of Canada Annual Meeting 2015.
	• Probability Section Student Presentation Award,
	Statistical Society of Canada Annual Meeting 2015.
Presentations	Statistic and Probability Conferences
	• The Statistical Society of Canada Annual Meeting, Calgary, AB (May 2019).
	• The Statistical Society of Canada Annual Meeting, Montreal, QC (June 2018).
	• 5th Bayesian, Fiducial and Frequentist Conference, University of Michigan, Ann Arbor, MI (May 2018).
	• Workshop on Stochastic Processes and their Applications, Carleton University, Ottawa, ON, Canada (August 2017).

- 11th Conference on Bayesian Nonparametrics, Paris, France (June 2017).
- 4th Bayesian, Fiducial and Frequentist Conference, Harvard University, Cambridge, MI (May 2017).
- World Congress in Probability and Statistics, University of Toronto, Toronto, ON, Canada (June 2016).
- International Workshop in Applied Probability, University of Toronto, Toronto, ON, Canada (June 2016).
- ISBA World Meeting, Sardinia, Italy (June 2016).
- Statistical Society of Canada Annual Meeting, Brock University, St Catharines, On, Canada (May 2016).
- Objective Bayes Workshop, University of Valencia, Valencia, Spain (June 2015).
- Statistical Society of Canada Annual Meeting, University of Dalhousie, Halifax, NS, Canada (June 2015).

Seminar Talks

- Stanford University, invited by Peter Glynn, Stanford, CA (May 2019).
- University of California, San Diego Probability Seminar, San Diego, CA (Jan 2019).
- University of California, Berkeley Risk Seminar, Berkeley, CA (September 2018).
- The Johns Hopkins University Economic Department Seminar, Baltimore, MD (May 2018).
- University of Ottawa Probability and Statistics Seminar, Ottawa, ON, Canada (February 2017).
- University of California, Berkeley Probability Seminar, Berkeley, CA (February 2017).
- University of Toronto Set Theory Seminar, Toronto, ON, Canada (November 2016).
- University of Toronto Set Theory Seminar, Toronto, ON, Canada (December 2015).