## Anton Braverman

Updated February 2022 Phone: (773)-524-9739 Email: anton.braverman@kellogg.northwestern.edu Website: http://www.kellogg.northwestern.edu/faculty/directory/braverman\_anton.aspx

Education	Ph.D. in Operations Research, Cornell University Ma Thesis: "Stein's method for steady-state approximations of stochastic sys Advisor: Jim Dai.	iy 2017 stems".
	M.S. in Operations Research, Cornell University Ma	ıy 2015
	B.S. in Math and Statistics, University of Toronto Jun	ne 2012
Professional Experience	Kellogg School of Management, Northwestern University July 2017 - Assistant Professor.	present
Publications	<ol> <li>A. Braverman, J.G. Dai and J. Feng (2016). Stein's method for steady diffusion approximations: An introduction through the Erlang-A and E C models. <i>Stochastic Systems</i> 6(2), 301–366. https://dx.doi.org/10. 15-SSY212</li> </ol>	y-state Erlang- .1214/
	<ol> <li>A. Braverman and J.G. Dai (2017). Stein's method for steady-state di approximations of M/Ph/n + M systems. Annals of Applied Probability, 550-581. https://dx.doi.org/10.1214/16-AAP1211</li> </ol>	$\begin{array}{l} \text{iffusion} \\ 27 \ (1), \end{array}$
	<ol> <li>A. Braverman, J.G. Dai and M. Miyazawa (2017). Heavy traffic appr- tion for the stationary distribution of a generalized Jackson network: The approach. <i>Stochastic Systems</i> 7(1), 143–196. https://dx.doi.org/10. 15-SSY199</li> </ol>	oxima- e BAR .1214/
	<ol> <li>A. Bendikov, A. Braverman, and J. Pike. Poisson statistics of eigenval the hierarchical Dyson model (2018). Theory of Probability and its Applie 63(1), 94–116. https://doi.org/10.1137%2FS0040585X97T988939</li> </ol>	lues in <i>cations</i>
	<ol> <li>A. Braverman, J.G. Dai, X. Liu, L. Ying (2019) Empty-car routing in rides systems. Operations Research 67(5), 1437–1452. https://doi.org/10. opre.2018.1822</li> </ol>	sharing .1287/
	<ol> <li>A. Braverman, A. Minca. Networks of common asset holdings: aggregation measures of vulnerability. <i>Journal of Network Theory in Finance</i>, 4 (3), 5</li> </ol>	on and 53-78.
	<ol> <li>A. Braverman, I. Gurvich, J. Huang (2020), "On the Taylor Expansion of Functions". Operations Research 68(2), 631-654. https://doi.org/10. opre.2019.1903</li> </ol>	f Value .1287/
	<ol> <li>A. Braverman, "Steady-state analysis of the Join the Shortest Queue me the Halfin-Whitt regime" (2020). Mathematics of Operations Research 1069-1103. https://doi.org/10.1287/moor.2019.1023</li> </ol>	odel in $45(3),$
	<ol> <li>A. Braverman "The prelimit generator comparison approach of Stein's me (2021). Stochastic Systems, published online ahead of print. https://doi 10.1287/stsy.2021.0085</li> </ol>	ethod" i.org/

Working Papers	1. A. Braverman, "The join-the-shortest-queue system in the Halfin-Whitt regime: rates of convergence to the diffusion limit" (2022). https://arxiv.org/abs/ 2202.02889	
	<ol> <li>A. Braverman, J.G. Dai, X. Fang "High order steady-state diffusion approxima- tions" (2021). Submitted for publication. https://arxiv.org/abs/2012.02824</li> </ol>	
Presentations	a. Invited Conference and Workshop Presentations	
	• INFORMS annual meeting, Minneapolis, MI, October 2013.	
	• SIAM Conference on Financial Mathematics & Engineering, Chicago, IL, November 2014.	
	• Workshop on New Directions in Stein's Method, Singapore, May 2015.	
	• INFORMS annual meeting, Philadelphia, PA, October 2015.	
	• Young Researchers Workshop on Data-Driven Decision Making, Cornell University, Ithaca, NY, October 2016.	
	• INFORMS annual meeting, Nashville, TN, November 2016.	
	• INFORMS APS meeting, Evanston, IL, July 2017.	
	• Annual SPA meeting, Goteborg, Sweden, June 2018.	
	• International workshop on recent progress in data, models and decisions, CUHKSZ, Shenzhen, July 2018.	
	• INFORMS annual meeting, Zoom, November 2020.	
	b. Invited Tutorial Presentations	
	• 35th International Symposium on Computer Performance, Modeling, Measurements and Evaluation at Columbia University, November 2017.	
	c. Invited Seminar Presentations	
	• The Department of Mathematics, Cornell University, Ithaca, NY, February 2015.	
	• Operations, Information & Technology Group, Stanford University, April 2021.	
	• Industrial & Enterprise Systems Engineering, UI Urbana-Champaign, April 2021.	
	d. Poster Presentations	
	• ORIE Workshop on Data-Driven Decision Making, Cornell University, Ithaca, NY, October 2014.	
	• Reflected Brownian Motions, Stochastic Networks, and their Applications, Institute for Mathematics and its Applications, Minneapolis, MI, June 2015.	
	• Second annual Young Researchers Workshop on Data-Driven Decision Mak- ing, Cornell University, Ithaca, NY, October 2015.	
Honors and Awards	The Best Publication Award, Applied Probability Society of INFORMS, October 2017.	
Professional Service	Referee: Stochastic Models, QUESTA, Operations Research, Math of Operations Research, Stochastic Systems, Journal of Applied Probability, Annals of Applied Probability, Bernoulli Journal, Management Science.	