Contact Information	atz@mit.edu (312) 498 0782	https://atzheng.github.io	
Education	Massachusetts Institute of Technology Ph.D. in Operations Research Advisor: Vivek Farias	2017 – Present	
	<b>Northwestern University</b> B.S. in Industrial Engineering, M.S. in Computer Science	2010 - 2014	
INTERESTS	Reinforcement learning, bandits, experimentation, and causal in	ference for online platforms.	
Papers	<ul> <li>Markovian Interference in Experiments</li> <li>V. F. Farias, A. A. Li, T. Peng, A. Zheng.</li> <li>Preliminary: NeurIPS 2022</li> <li>Under preparation for Management Science. <ul> <li>* Finalist, 2022 APS Best Student Paper Award</li> <li>* Finalist, 2022 RMP Jeff McGill Student Paper Award</li> </ul> </li> <li>Synthetically Controlled Bandits <ul> <li>V. F. Farias, C. Moallemi, T. Peng, A. Zheng.</li> <li>Preliminary: MSOM Service Management SIG 2022</li> <li>Under review at Management Science.</li> </ul> </li> <li>The Limits to Learning a Diffusion Model <ul> <li>J. Baek, V. F. Farias, A. Georgescu, R. Levi, T. Peng, D. Sinha Preliminary: ACM Conference on Economics and Computation R&amp;R at Management Science.</li> </ul> </li> <li>Evaluation of individual and ensemble probabilistic fore tality in the US <ul> <li>E. Y. Cramer et. al.</li> <li>Proceedings of the National Academy of Sciences, 2022</li> </ul> </li> <li>Optimizing Offer Sets in Sublinear Time <ul> <li>V. F. Farias, A. A. Li, D. Sinha, A. Zheng.</li> <li>Preliminary: ACM Conference on Economics and Computation Major revision. Submitted to Management Science.</li> </ul> </li> </ul>	<pre>sperimentation, and causal inference for online platforms. Deriments Zheng. t Science. mt Paper Award ill Student Paper Award lits g, A. Zheng. gement SIG 2022 nce. usion Model u, R. Levi, T. Peng, D. Sinha, J. Wilde, A. Zheng Economics and Computation (EC), 2021 ensemble probabilistic forecasts of COVID-19 mor- my of Sciences, 2022 inear Time  Zheng. Economics and Computation (EC), 2020 agement Science. Dynamic Programming via the Kernel Method i, A. Zheng. ic Systems.</pre>	

Professional Experience	<b>Bytedance</b> Research Engineer Intern Implemented techniques from "Markovian Interference in Exper	San Francisco, CA 2022 ziments " at industry scale	
	Applications include livestreaming and online retail.	ments, at mustry scale.	
	<b>COVID-19 Alliance</b> Data Scientist	Cambridge, MA 2020 – 2021	
	Developed models to predict COVID-19 hospitalization rates, using methods from "Limits to Learning A Diffusion Process." Predictions were used to allocate hospital resources in a large U.S. state. Built and deployed an automated communication system (SMS and email) with senior residential facilities in NH, used daily 2020-2021.		
	Uber Data Scientist	San Francisco, CA	
	Developed and deployed matching algorithms, experimentation methods, and simulations for dispatch on UberPOOL and UberCommute.		
	Facebook	Menlo Park, CA	
	Data Scientist Intern Quantified the impact of app reliability on user engagement.	2014	
Teaching Experience	<b>15.778:</b> Introduction to Operations Management Inventory management, queueing, capacity analysis. Core class program for mid-career professionals. Developed an interactive p now also used at several other universities. <i>Student evaluation:</i> 6	2020, 2021, 2022 for the Sloan Fellows MBA revenue management game, $5.3 \neq 7.0$	
	15.003: Analytics Tools	2019, 2021	
	Data science tools in R and Python, for the Masters of Business Analytics program.		
	<b>15.S60: Computing in Optimization and Statistics</b> Data science tools in R and Python.	2018	
SERVICE	Reviewer for Operations Research, Management Science		
	Session Chair, INFORMS Annual Meeting Student Coordinator, MIT OM Seminar Series	2022 2022	
Talks	Markovian Interference in Experiments		
	NeurIPS Conference INFORMS Annual Meeting	2022	
	Lyft Rideshare Labs Seminar	2022	
	Synthetically Controlled Bandits		
	MSOM Service Management SIG	2022	
	RMP Conference INFORMS Annual Meeting	2022 2022	
	The Limits to Learning a Diffusion Model INFORMS Annual Meeting	2021	
References	<b>Vivek Farias</b> MIT Sloan School of Management vivekf@mit.edu		
	Ciamac Moallemi Columbia Graduate School of Business ciamac@gsb.columbia.edu		
	<b>Jónas Oddur Jónasson</b> MIT Sloan School of Management joj@mit.edu		