

CONTACT	Kravis Hall 665 W 130th St New York, NY	Tel: 917-545-3349 Email: eche25@gsb.columbia.edu
EDUCATION	Columbia Business School , New York, NY Ph.D. in Decision, Risk, and Operations. (GPA: 4.0/4.0) Advisors: Jing Dong and Hongseok Namkoong Columbia University in the City of New York , New York, NY B.A. in Economics-Mathematics	2020-Present 2014-2018
RESEARCH INTERESTS	Adaptive Experimentation, Reinforcement Learning, Stochastic Optimization, Queuing systems	
WORKING PAPERS	Skill-based Routing via Deep Reinforcement Learning with Jing Dong and Hongseok Namkoong. Work in progress. 2022. Adaptive Experimentation at Scale with Hongseok Namkoong. <i>NeurIPS 2022 Workshop on Gaussian Processes, Spatiotemporal Modeling, and Decision-making Systems</i> Discounting in Markov Chain Estimation with Jing Dong. Work in progress. 2022.	
PUBLISHED PAPERS	Robustly Optimal Auction Design under Mean Constraints <i>EC '22: Proceedings of the 23rd ACM Conference on Economics and Computation</i> (link)	
TALKS	“Adaptive Experimentation at Scale”. Conference on Digital Experimentation, 2022. Poster session. Boston, MA. “Robustly Optimal Auction Design under Mean Constraints”. EC 2022. Boulder, CO. GAMES 2020. Budapest, Hungary. “Discounting in Markov Chain Simulation”. INFORMS Annual Meeting 2022. Indianapolis, IN. INFORMS Annual Meeting 2021. Online.	
WORK EXPERIENCE	Research Professional <i>University of Chicago Booth School of Business</i> – Worked with Prof. Eric Budish and Prof. Jacob Leshno. – Ran econometric tests for large-scale datasets, including centralized college admissions matching data and NYSE TAQ data, with Python and SAS. – Modeled double-spend attacks in Proof-of-Work cryptocurrencies with queuing theory, and derived theoretical recommendations for confirmation periods in crypto exchanges. Research Assistant <i>Yale University</i> – Worked with Prof. Costas Arkolakis. – Used Python, R and OCR software to clean and analyze historical manufacturing census data; used clustering methods to study spatial distribution of manufacturing industries.	Aug 2018 - June 2020 June 2016 - August 2017
TEACHING ASSISSTANT	MBA Core: Managerial Statistics PhD Core: Introduction to Econometrics and Statistical Inference MBA Elective: Technology Breakthroughs	Fall 2021, Spring 2022, Fall 2022 Fall 2021 Fall 2022
RELEVANT COURSES	Convex Optimization, Linear Optimization, Econometrics and Statistical Inference, High-dimensional Probability, Data Structures and Algorithms, Machine Learning.	
TECHNICAL SKILLS	Programming Languages: Python (PyTorch), R, SAS, Java, Mathematica Technical: Excel, PowerPoint, LaTeX, Git	