Education	MIT, Cambridge, MA PhD, Operations Research Center Dissertation: "Analytics for Improved Cancer Screening Thesis Supervisor: Dimitris Bertsimas	Sept. 2011 – Aug. 2015 g and Treatment"	
	University of Maryland , College Park, MD Bachelor of Science, Computer Science (summa cum la Bachelor of Science, Mathematics (summa cum laude, 1		
Academic Positions	University of Michigan Ross School of Business , An Assistant Professor	n Arbor, MI July 2017 – present	
	MIT Sloan School of Management , Cambridge, MA Postdoctoral Fellow and Lecturer	Sept. 2015 – May 2017	
	MIT Operations Research Center , Cambridge, MA Research assistant	Sept. 2011 – Aug. 2015	
Journal Publications	15. "Adaptive Clinical Trial Designs with Surrogates: Wh with A. Anderer and H. Bastani. <i>Management Science</i> ,		
	• Winner of the 2019 William Pierskalla Best Paper Award		
	• Winner of the 2020 MSOM Student Paper Competition		
	• Finalist in the 2020 Public Sector OR Best Paper	Award	
	 "Time to first onset of chest binding-related symptoms in transgender adults" with S. Peitzmeier, I. Gardner, J. Weinand, K. Acevedo, A. <i>Pediatrics</i>, 147(3), 2021. 		
	 "Clinical Benefit, Toxicity and Cost of Metastatic Breast Cancer Therapies: Systematic Review and Meta-analysis," with D. Bertsimas and L. Vahdat. Breast Cancer Research and Treatment, 176(3), 535–543, 2019. 		
	 "An Applied Informatics Decision Support Tool for Mortality Predictions in Can- cer Patients," with D. Bertsimas, E. Chen, J. Dunn, A. Elfiky, C. Pawlowski, A. Weinstein, and Y. Zhuo. JCO Clinical Cancer Informatics 2, 1–11, 2018. 		
	 "What Works Best When? A Systematic Evaluation o and QUBO," with I. Dunning and S. Gupta. <i>INFORM</i> 30(3), 608–624, 2018. 		
	• Special Recognition for the 2016 INFORMS Con Paper Prize	nputing Society Student	
	 "Optimal healthcare decision making under multiple m plication in prostate cancer screening," with D. Berts Health Care Management Science, 21(1), 105–118, 2018 	simas and T. Trikalinos.	
	 "An Analytics Approach to Designing Combination Che Cancer," with D. Bertsimas, A. O'Hair, and S. Relye 62(5), 1511–1531, 2016. 	- • •	
	• Winner of the 2013 William Pierskalla Best Paper	Award	
	8. "Tenure Analytics: Models for Predicting Research Imp E. Brynjolfsson, and S. Reichman. Operations Research	pact," with D. Bertsimas,	

	 "A Course on Advanced Software Tools for Operations Research and Analyt- ics," with I. Dunning, V. Gupta, A. King, J. Kung, and M. Lubin, <i>INFORMS Transactions on Education</i>, 15(2), 169–179, 2015.
	 "Comparison of Heuristics for the Colorful Traveling Salesman Problem," with A. Raiconi, R. Cerulli, M. Gentili, B. Golden, and S. Chen, <i>International Journal</i> of Metaheuristics, 2(2): 141–173, 2013.
	 "Empirical Analysis of the Effect of Residents on Emergency Department Treat- ment Times," with D. Anderson, B. Golden, M. Harrington, and J. M. Hirshon, <i>IIE Transactions on Healthcare Systems Engineering</i> 3(3), 171–180, 2013.
	4. "The Impact of the Residency Teaching Model on the Efficacy of the Emergency Department at an Academic Center," with D. Anderson, B. Golden, M. Harrington, and J. M. Hirshon, <i>Socio-Economic Planning Sciences</i> 47(3), 183–190, 2013.
	 "Statistical Constraints on Binary Black Hole Inspiral Dynamics," with C. Galley, F. Herrmann, M. Tiglio, and G. Guerberoff, <i>Classical and Quantum Gravity</i> 27(24), 245007, 2010.
	2. "The Effective Application of a New Approach to the Generalized Orienteering Problem," with B. Golden, <i>Journal of Heuristics</i> 16(3), 393–415, 2010.
	\bullet Winner of the 2010 INFORMS Undergraduate Operations Research Prize
	 "Integrating Post-Newtonian Equations on Graphics Processing Units," with F. Herrmann, M. Bellone, G. Guerberoff, and M. Tiglio, <i>Classical and Quantum Gravity</i> 27(3), 032001, 2010.
Articles Submitted	"Cost-saving synergy: Energy stacking in battery energy storage systems" with J. Bae and R. Kapuscinski. <i>Major revision at Management Science</i>
	 "Can Employees' Past Helping Behavior be Used to Improve Shift Scheduling? Evidence from ICU Nurses" with D. Costa, Z. Jiang, M. Sjoding, Y. Wang. Major revision at Management Science Third place in the 2022 POMS College of Healthcare Operations Management Best Paper Competition
	• Finalist for the 2022 Behavioral Operations Management Best Working Paper Award
	"Optimal COVID-19 Containment Strategies: Evidence Across Multiple Mathematical Models" with HS. Ahn, X. Song, and X. Wu. <i>Preparing for resubmission</i>
	"Measuring Utility and Speculation in Blockchain Tokens" with D. Wu. <i>Reject and resubmit at Management Science</i> .
Working Papers	"The Price of Simplicity in Personalized Screening Strategies." Targeted for Management Science.
Articles in Preparation	"Do Regulators Adequately Control for the Control Arm? An Empirical Analysis of Drug Approvals" with S. Verma and X. Wu. <i>Targeted for Management Science</i> .
	"Combining Pre-Approval Clinical Trials and Post-Approval Spontaneous Adverse Event Reporting for Improved Safety Signaling" with F. Bravo and Y. Chen. <i>Targeted</i> for Management Science
DISSERTATION	"Analytics for Improved Cancer Screening and Treatment," MIT Operations Research Center, 2015.

Other Publications	"Black Hole Simulations with CUDA," with F. Herrmann and M. Tiglio, oputing Gems Emerald Edition (W. Hwu, ed.), Morgan Kaufmann, 103–11	
	"Comparison of Metaheuristics," with B. Golden, Handbook of Metaheu Gendreau and J. Potvin, eds.), Springer, 625–640, 2010.	wristics $(M.$
	"Comparison of Heuristics for Solving the GMLST Problem," with Y. Chenick, A. Hall, R. Sahajpal, I. Yahav, and B. Golden, <i>Proceedings of the 9th Telecommunications Conference</i> , 191–217, 2008.	
	"The Generalized Traveling Salesman Problem: A New Genetic Algorithm , with B. Golden, <i>Proceedings of the 10th INFORMS Computing Society</i> (165–181, 2007.	
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Invited	Combining Clinical Trial and Observational Data in Drug Safety	
Presentations	2022 INFORMS Annual Meeting, Indianapolis, IN	Oct. 2022
	The Future of Analytics and OR Workshop, Indianapolis, IN	Oct. 2022
	University of Pennsylvania, Wharton School	Feb. 2022
	Using Past Helping Behavior to Improve Shift Scheduling POMS 32nd Annual Conference, Virtual	Apr. 2022
		1
	Clinical Trial Design From A Network Meta-Analysis Lens 2021 INFORMS Annual Meeting, Virtual	Oct. 2021
	Optimal COVID-19 Containment Strategies	
	2021 INFORMS Healthcare Meeting, Virtual	July 2021
	MSOM Conference 2021, Virtual	June 2021
	Adaptive Clinical Trial Designs with Sumageter	
	Adaptive Clinical Trial Designs with Surrogates 2020 INFORMS Annual Meeting, Virtual	Nov. 2020
	2020 INFORMS Annual Meeting, Virtual	NOV. 2020
	Batch Bayesian Optimization for Healthcare Policy Optimizatio	
	2019 INFORMS Annual Meeting, Seattle, WA	Oct. 2019
	2019 INFORMS Healthcare Meeting, Cambridge, MA	July 2019
	Price of Simplicity in Personalized Cancer Screening	
	2019 INFORMS Healthcare Meeting, Cambridge, MA	July 2019
	2018 INFORMS Annual Meeting, Phoenix, AZ	Nov. 2018
	2017 INFORMS Annual Meeting, Houston, TX	Oct. 2017
	Designing Drug Therapies for Cancer	
	University of Michigan, Ross School of Business	Mar. 2017
	University of Michigan, College of Engineering	Feb. 2017
	Georgia Institute of Technology, College of Engineering	Feb. 2017 Feb. 2017
	University of California Los Angeles, Anderson School of Management	Feb. 2017
	Yale University, Yale School of Management	Feb. 2017
	Boston College, Carroll School of Management	Jan. 2017
	University of Maryland, Robert H. Smith School of Business	Jan. 2017
	University of North Carolina Chapel Hill, Kenan-Flagler Business School	
	University of California San Diego, Rady School of Management	Jan. 2017
	Northwestern University, McCormick School of Engineering	Jan. 2017
	2016 INFORMS Annual Meeting, Nashville, TN	Nov. 2016
	MIT Sloan School of Management, Operations Management Seminar	Oct. 2016
	INFORMS Healthcare 2015, Nashville, TN	July 2015
	2013 INFORMS Annual Meeting, Minneapolis, MN	Oct. 2013
	INFORMS Healthcare 2013, Chicago, IL	June 2013
	Optimal Screening Under Multiple Mathematical Models POMS 27th Appual Conference, Orlando, FI	Mar 2016
	POMS 27th Annual Conference, Orlando, FL	May 2016

	2015 INFORMS Annual Meeting, Philadelphia, PA 2014 INFORMS Annual Meeting, San Francisco, CA POMS 25th Annual Conference, Atlanta, GA	Nov. 2015 Nov. 2014 May 2014	
Awards	William Pierskalla Best Paper Award, award for the top healthc: science paper worldwide (Awarded twice — Oct. 2013 and Oct. 201	~	
	Special Recognition for the INFORMS Computing Society S Prize (Nov. 2016)	Student Paper	
	Course Central's Top 50 MOOCs of All Time recognition for 1 alytics Edge, a Massive Open Online Course (MOOC) I developed as jointly with Sloan faculty/instructors and four other PhD students (s a PhD student	
	NSF Graduate Research Fellowship Program Award (Mar. 2	2012)	
	INFORMS Undergraduate Operations Research Prize , an award for the top undergraduate operations research paper worldwide (Nov. 2010)		
	Barry M. Goldwater Scholarship , an award for the top 278 U.S researchers in science, mathematics, and engineering (Mar. 2009)	. undergraduate	
MBA TEACHING Experience	BA 553: Multidisciplinary Action Projects Co-advised Ross MBA consulting teams.	Winter 2022	
	TO 640: Big Data Management Tools and Techniques Winter 2 Delivered Ross MBA elective on software tools for big data management	2018, 2019, 2021 nent.	
	TO 502: Applied Business Statistics Delivered the Ross MBA statistics core.	Fall 2019	
	15.071 The Analytics Edge Delivered (with Prof. Robert Freund) two sections of this Sloan MBA on analytics.	Spring 2017 A elective course	
	15.060 Data, Models, and Decisions Delivered two sections of this Sloan MBA Core course on quantitative	Fall 2016 ve methods.	
	15.071 The Analytics Edge Delivered (with Prof. Robert Freund) two sections of this Sloan MBA on analytics. Co-developed 13 new lectures for the course.	Spring 2016 A elective course	
Other Teaching Experience	15.003: Analytics Software Tools Developed and delivered a 3-hour module on data wrangling with d	Sept. 2016 plyr in R.	
	15.S60 SSIM: Software Tools for Operations Research Developed and delivered a 3-hour module on network analysis in R.	Jan. 2015	
	15.071x The Analytics Edge Mar. 2013 – May 2014 Co-developed a Massive Open Online Course (MOOC). Curated 14 datasets/associated materials, co-developed three lectures, and developed and videoed two recitations.		
	15.S60 SSIM: Software Tools for Operations Research Developed and delivered a 3-hour module on data wrangling in base	Jan. 2014 R.	
	Teaching Assistant: 15.071 The Analytics EdgeHGraded assignments and developed and delivered recitations.	Feb. – May 2013	
	15.S60 SSIM: Software Tools for Operations Research Developed and gave 3-hour modules on advanced R and distributed	Jan. 2013 optimization.	

Case Studies Developed	"Organ Allocation at the National Paired Kidney Exchange," with D. Gamarnik and I. Ashlagi.
SERVICE	Session chair: INFORMS Annual Meeting (2015, 2017, 2018, 2020); POMS Annual Conference (2019), INFORMS Healthcare (2019)
	Cluster chair: CORS/INFORMS International Conference (2022)
	Ad Hoc Reviewer: Applied Soft Computing, Cancer Informatics, Cancer Research, Computers & Operations Research, INFORMS Journal on Computing, INFORMS Transactions on Education, Management Science, MSOM, MSOM Healthcare SIG, Naval Research Logistics, Operations Research, PLOS One, Production and Opera- tions Management
	Guest Associate Editor: Naval Research Logistics (special issue on Pandemic Preparedness)
	Competition Judge: Pierskalla Award (2014 [co-chair], 2017, 2020 [co-chair]), POMS College of Healthcare Operations Best Paper Contest (2020), Nicholson Prize (2020, 2021), MSOM Student Paper Contest (2020, 2021, 2022), Seth Bonder Scholarship (2021, 2022), BOM Best Working Paper Competition (2022)
Students Supervised	Joonho Bae (2019 – present); PhD student co-advised with Roman Kapuscinski
Other Experience	Google, New York, NYMay – Aug. 2011Software Development Engineer InternMay – Aug. 2011Implemented validation framework for predictions published by Google AdWords.
	Enertaq, Inc., Chevy Chase, MD Co-founder and Chief Technology Officer Jan. – Dec. 2010 Co-developed a novel control-theoretic approach to providing electricity grid reliabil- ity via demand response. Designed and implemented a distributed software system, managing a small development team.
	Microsoft Corporation, Redmond, WASoftware Development Engineer InternMay – Aug. 2008Implemented UI and cache optimization projects shipped in Microsoft Office 2010.
Other	Expert software developer with professional experience Elected community moderator on Stack Overflow Hobbies: Tennis, competitive bridge, chess
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