

Bradley Sturt

PERSONAL	Name: Bradley Eli Sturt Birthday: October 1991 Office: 601 S. Morgan Street, Chicago, IL Email: bsturt@uic.edu Phone: (847) 867-1054	
ACADEMIC EMPLOYMENT	University of Illinois at Chicago , Chicago, IL <i>Assistant Professor of Business Analytics</i>	<i>2020 - Present</i>
EDUCATION	Massachusetts Institute of Technology , Cambridge, MA Ph.D. in Operations Research GPA: 5.00/5.00 Thesis: <i>Dynamic Optimization in the Age of Big Data</i>	<i>2015 - 2020</i>
	University of Illinois Urbana Champaign , Champaign, IL B.S. in Computer Engineering, minor in Technology and Management GPA: 3.97/4.00 Graduated with Highest Honors and University Honors (Bronze Tablet)	<i>2010 - 2014</i>
SELECTED AWARDS	INFORMS Junior Faculty Interest Group (JFIG) Paper Competition, Second Place, 2021 The competition is held each year to encourage research among junior faculty and to increase the visibility of research conducted by junior faculty within the fields of operations research and management science. Awarded for solo-author paper titled “A nonparametric algorithm for optimal stopping based on robust optimization”. MIT Operations Research Center Student Paper Competition, First Place, 2019 Awarded to one paper written by students each year in the MIT ORC PhD Program, recognizing outstanding achievement in operations research. Awarded for paper titled “A data-driven approach to multi-stage stochastic linear optimization” with D. Bertsimas and S. Shtern. MIT Sloan Outstanding Teaching Assistant Award, 2017 Awarded to one graduate student in the MIT Sloan School of Management each academic year for excellence in MBA teaching. Nominated and selected by MBA students as a teaching assistant in Fall 2016 for the class “15.060: Data, Models and Decisions”. INFORMS George Nicholson Student Paper Competition, Second Place, 2017 The competition is held each year to honor outstanding papers in the field of operations research and the management sciences written by a student. Awarded for paper titled “Computation of the bootstrap: complexity, exact algorithms and deterministic approximations” with D. Bertsimas.	

Research

* Author names are listed in alphabetical order

COMPLETED ARTICLES

1. Improving the security of United States elections with robust optimization
B. Crimmins, J. Halderman, and B. Sturt*
2. Group fairness in dynamic refugee assignment
D. Freund, T. Lykouris, E. Paulson, B. Sturt, and W. Weng*
– Preliminary versions at EC 2023, FORC 2023, and the 2023 Marketplace Innovation Workshop
3. On the sparsity of optimal linear decision rules in robust inventory management
H. Lu and B. Sturt*
4. The value of robust assortment optimization under ranking-based choice models
B. Sturt

PUBLISHED ARTICLES

5. A nonparametric algorithm for optimal stopping based on robust optimization
B. Sturt
Operations Research, Vol. 71, No. 4, 2023
– Second Place in the INFORMS Junior Faculty Interest Group Paper Competition, 2021
6. Dynamic optimization with side information
D. Bertsimas, C. McCord, and B. Sturt*
European Journal of Operational Research, Vol. 304, No. 2, 2023
– EJOR Editors' Choice Articles, January 2023
7. A data-driven approach to multi-stage stochastic linear optimization
D. Bertsimas, S. Shtern, and B. Sturt*
Management Science, Vol. 69, No. 1, 2023
– First Place in the MIT ORC Student Paper Competition, 2019
8. Two-stage sample robust optimization
D. Bertsimas, S. Shtern, and B. Sturt*
Operations Research, Vol. 70, No. 1, 2022
9. Computation of exact bootstrap confidence intervals: Complexity and deterministic algorithms
D. Bertsimas and B. Sturt*
Operations Research, Vol. 68, No. 3, 2020
– Second Place in the INFORMS George Nicholson Student Paper Competition, 2017
10. The path most traveled: Travel demand estimation using big data resources
J. Toole, S. Colak, B. Sturt, L. Alexander, A. Evsukoff, and M. C. González
Transportation Research Part C: Emerging Technologies, Vol. 58, 2015

PEER REVIEWED CONFERENCE PAPERS	11. Personalized entity recommendation in heterogeneous information networks with implicit user feedback X. Yu, X. Ren, Y. Sun, Q. Gu, B. Sturt, U. Khandelwal, B. Norick, and J. Han Proceedings of the 7th ACM Intl. Conference on Web Search and Data Mining , 2014
	12. HeteRec: Entity recommendation in heterogeneous information networks with implicit user feedback X. Yu, X. Ren, Y. Sun, B. Sturt, U. Khandelwal, Q. Gu, B. Norick, and J. Han Proceedings of the 7th ACM Conference on Recommender Systems , 2013

Invited Talks and Conferences

SEMINARS & WORKSHOPS	Robust Optimization Webinar	<i>December 2023</i>
	INSEAD, Workshop on Information and Learning in Decisions and Operations	<i>July 2023</i>
	Northwestern University, Industrial Engineering and Management Science	<i>September 2022</i>
	Virginia Tech, Industrial and Systems Engineering	<i>May 2022</i>
	University of Texas Austin, Operations Research and Industrial Engineering	<i>November 2021</i>
	Washington University in St. Louis, Olin Business School	<i>November 2021</i>
	Robust Optimization Webinar	<i>November 2020</i>
	University of Wisconsin Madison, Industrial and Systems Engineering	<i>January 2020</i>
	University of Michigan, Industrial and Operations Engineering	<i>December 2019</i>
	Indiana University, Kelley School of Business	<i>December 2019</i>
	University of Illinois at Chicago, College of Business Administration	<i>December 2019</i>
	Princeton University, Operations Research and Financial Engineering	<i>November 2019</i>
	University of Illinois Urbana-Champaign, Gies College of Business	<i>November 2019</i>
	Oracle Labs (USA East Office), ML Research Seminar Series	<i>November 2019</i>
	MIT Operations Research Center, ORC Seminar	<i>September 2019</i>
	CMU Tepper School of Business, YinzOR Workshop	<i>August 2019</i>
	Technion Industrial Engineering, Quant Seminar	<i>January 2019</i>
	BIRS Workshop on “Models and Algorithms for Sequential Decision-Making under Uncertainty”, Banff	<i>January 2019</i>
CONFERENCES	International Conference on Stochastic Programming (ICSP), Davis	<i>July 2023</i>
	Statewide Certification Testing of Election Systems National Conference, Huntsville	<i>June 2023</i>
	SIAM Conference on Optimization (OP23), Seattle	<i>June 2023</i>
	Election Verification Network Conference on “Bridging Trust Across Divides”, Washington DC	<i>March 2023</i>
	INFORMS Annual Meeting, Indianapolis	<i>October 2022</i>
	INFORMS Revenue Management and Pricing (RMP) Section Conference, Virtual	<i>June 2022</i>
	INFORMS Annual Meeting, Virtual	<i>October 2021</i>
	SIAM Conference on Optimization (OP21), Virtual	<i>July 2021</i>

INFORMS Annual Meeting, Virtual	<i>October 2020</i>
International Conference on Continuous Optimization (ICCOPT), Berlin	<i>August, 2019</i>
INFORMS Annual Meeting, Seattle	<i>October 2019</i>
INFORMS Annual Meeting, Phoenix	<i>November 2018</i>
International Symposium on Mathematical Programming (ISMP), Bordeaux	<i>August 2018</i>
INFORMS Annual Meeting, Houston	<i>October 2017</i>

Service

REVIEWER	Management Science, Operations Research, Mathematics of Operations Research, Manufacturing & Service Operations Management, SIAM Journal on Optimization, Mathematical Programming, Production and Operations Management, INFORMS Journal on Optimization, INFORMS Journal on Computing
COMPETITIONS	Pierskalla Best Paper Award Committee Member, 2023

Teaching

INSTRUCTOR	University of Illinois at Chicago	
	IDS 532, Introduction to Operations Management	<i>Fall 2023</i>
	IDS 516, Data Analytics for Business Professionals (Instructor Evaluation: 4.80/5)	<i>Fall 2022</i>
	IDS 270, Statistics I for Business Scholars (Instructor Evaluation: 4.19/5)	<i>Fall 2022</i>
	IDS 472, Business Data Mining (Instructor Evaluation: 4.77/5)	<i>Spring 2022</i>
	IDS 516, Data Analytics for Business Professionals (Instructor Evaluation: 4.75/5)	<i>Fall 2021</i>
	IDS 270, Statistics I for Business Scholars (Instructor Evaluation: 3.63/5)	<i>Fall 2021</i>
	IDS 472, Business Data Mining (Instructor Evaluation: 4.61/5)	<i>Spring 2021</i>
	IDS 270, Statistics I for Business Scholars (Instructor Evaluation: 4.38/5)	<i>Fall 2020</i>
	Massachusetts Institute of Technology	
	15.S60, Computation in Optimization and Statistics	<i>January 2017, 2018, 2019</i>
TEACHING ASSISTANT	Massachusetts Institute of Technology	
	15.097, Robust Optimization (TA Evaluation: 6.5/7)	<i>Spring 2019</i>
	15.778, Introduction to Operations Management (TA Evaluation: 6.7/7)	<i>Summer 2018</i>
	15.093, Optimization Methods (TA Evaluation: 7.0/7)	<i>Fall 2017</i>
	15.060, Data Models and Decisions (TA Evaluation: 6.7/7)	<i>Fall 2016</i>

Industry and Computing

INDUSTRY	Facebook , Menlo Park, CA	
EMPLOYMENT	<i>Data Scientist Intern</i>	<i>Summer 2015</i>
	Google , Mountain View, CA	
	<i>Software Engineering Intern</i>	<i>Summer 2013</i>
	Garmin , Olathe, KS	
	<i>Software Engineering Intern</i>	<i>Summer 2012</i>
COMPUTING	R, Python, Julia, C++, x86 Assembly	
LAST UPDATED	October 11, 2023	