

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 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 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>2015 - 2020</i> <i>2010 - 2014</i>
INDUSTRY EMPLOYMENT	Facebook , Menlo Park, CA <i>Data Scientist Intern</i> Google , Mountain View, CA <i>Software Engineering Intern</i> Garmin , Olathe, KS <i>Software Engineering Intern</i>	 <i>2015</i> <i>2013</i> <i>2012</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. 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.	

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”.

UIUC Campus Honors Program Outstanding Senior Award, 2013

Awarded to select undergraduates in the Campus Honors Program at UIUC, which is comprised of 125 top students in each academic year.

Research

SUBMITTED

1. Improving the Security of United States Elections with Robust Optimization

Co-authored with: Braden L. Crimmins, J. Alex Halderman

2. On the Sparsity of Optimal Linear Decision Rules in Robust Optimization

Co-authored with: Haihao Lu

3. Group Fairness in Dynamic Refugee Assignment

Co-authored with: Daniel Freund, Thodoris Lykouris, Elisabeth Paulson, Wentao Weng
Management Science (invited for first round revision - major revision)

Preliminary versions: *EC 2023*, *FORC 2023*, *2023 Marketplace Innovation Workshop*

4. The Value of Robust Assortment Optimization under Ranking-Based Choice Models

Sole author

Management Science (invited for second round revision - major revision)

JOURNAL ARTICLES

5. A Nonparametric Algorithm for Optimal Stopping based on Robust Optimization

Sole author

Operations Research, 2023, 71(5):1530-1557

Second Place in the INFORMS Junior Faculty Interest Group Paper Competition, 2021

6. Dynamic Optimization with Side Information

Co-authored with: Dimitris Bertsimas, Chris McCord

European Journal of Operational Research, Vol. 304, No. 2, 2023

7. A Data-Driven Approach to Multistage Stochastic Linear Optimization

Co-authored with: Dimitris Bertsimas, Shimrit Shtern

Management Science, Vol. 69, No. 1, 2023

First Place in the MIT ORC Student Paper Competition, 2019

8. Two-stage sample robust optimization

Co-authored with: Dimitris Bertsimas, Shimrit Shtern

Operations Research, Vol. 70, No. 1, 2022

9. **Computation of exact bootstrap confidence intervals: Complexity and deterministic algorithms**

Co-authored with: Dimitris Bertsimas

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**

Co-authored with: Jameson Toole, Serdar Colak, Lauren Alexander, Alexandre Evsukoff, Marta 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**

Co-authored with: Xiao Yu, Xiang Ren, Yizhou Sun, Quanquan Gu, Urvashi Khandelwal, Brandon Norick, Jiawei 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**

Co-authored with: Xiao Yu, Xiang Ren, Yizhou Sun, Urvashi Khandelwal, Quanquan Gu, Brandon Norick, Jiawei Han

Proceedings of the 7th ACM Conference on Recommender Systems, 2013

Invited Talks and Conferences

SEMINARS &
WORKSHOPS

Robust Optimization Webinar

December 2023

INSEAD, Workshop on Information and Learning in Decisions and Operations

July 2023

Northwestern University, Industrial Engineering and Management Science

September 2022

Virginia Tech, Industrial and Systems Engineering

May 2022

University of Texas Austin, Operations Research and Industrial Engineering

November 2021

Washington University in St. Louis, Olin Business School

November 2021

Robust Optimization Webinar

November 2020

University of Wisconsin Madison, Industrial and Systems Engineering

January 2020

University of Michigan, Industrial and Operations Engineering

December 2019

Indiana University, Kelley School of Business

December 2019

University of Illinois Chicago, College of Business Administration

December 2019

Princeton University, Operations Research and Financial Engineering

November 2019

University of Illinois Urbana-Champaign, Gies College of Business

November 2019

Oracle Labs (USA East Office), ML Research Seminar Series

November 2019

MIT Operations Research Center, ORC Seminar

September 2019

CMU Tepper School of Business, YinzOR Workshop

August 2019

Technion Industrial Engineering, Quant Seminar

January 2019

BIRS Workshop on “Models and Algorithms for Sequential Decision-Making under Uncertainty”, Banff

January 2019

CONFERENCES

International Conference on Stochastic Programming (ICSP), Davis

July 2023

Statewide Certification Testing of Election Systems National Conference, Huntsville

June 2023

SIAM Conference on Optimization (OP23), Seattle

June 2023

Election Verification Network Conference on “Bridging Trust Across Divides”, Washington DC

March 2023

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>

Teaching

INSTRUCTOR	University of Illinois Chicago	
	IDS 532, Introduction to Operations Management	<i>Spring 2024</i>
	IDS 532, Introduction to Operations Management (Instructor Evaluation: 4.72/5)	<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>

Service

JOURNAL 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	
CONFERENCE AND AWARD REVIEWER	ACM Conference on Economics and Computation, Program Committee	<i>2024</i>
	INFORMS Pierskalla Best Paper Award, Committee Member	<i>2023</i>
UIC ACTIVITIES	UIC Business Workshop on Diversity and Effective Teaching, Panel Speaker	<i>October 2023</i>
	UIC IDS PhD Committee Member	<i>2023-Present</i>
	UIC Business Analytics Organization, Invited Speaker	<i>April 2022</i>

LAST UPDATED January 5, 2024