

Daniela H. Saban

CONTACT INFORMATION	Knight Management Center 655 Knight Way, GSB Faculty Building E-367, Stanford, CA 94305	<i>E-mail:</i> dsaban@stanford.edu <i>Phone:</i> 650-723-6446 <i>Webpage:</i> http://www.stanford.edu/~dsaban/
EMPLOYMENT	Stanford University , Graduate School of Business Associate Professor of Operations, Information, and Technology (2021 - present) Assistant Professor of Operations, Information, and Technology (2015-2020)	2015 - present
	Simons Institute for the Theory of Computing Visiting scholar in the program “Online and Matching-Based Market Design”	Fall 2019
	Simons Institute for the Theory of Computing Visiting fellow in the program “Economics and Computation” Google Research Fellowship	Fall 2015
EDUCATION	Columbia University Ph.D. in Operations Management Decision, Risk, and Operations Division, Graduate School of Business	2015
	Universidad de Buenos Aires B.Sc. and M.Sc. degrees in Computer Science	2009
RESEARCH INTERESTS	online markets, matching markets, procurement mechanisms market design, pricing, revenue management	
JOURNAL PAPERS	<i>Improving Match Rates in Dating Markets Through Assortment Optimization</i> , I. Rios, D. Saban, and F. Zheng, <i>Manufacturing & Service Operations Management (M&SOM)</i> , Forthcoming. Preliminary version accepted in the ACM Conference on Economics and Computation (EC '21), 2021. Honorable mention in the 2020-2021 M&SOM Practice-Based Research Competition. <i>Online assortment optimization for two-sided matching platforms</i> , A. Aouad and D. Saban, <i>Management Science</i> , Forthcoming. Preliminary version accepted in the ACM Conference on Economics and Computation (EC '21), 2021. Selected for a spotlight presentation at the Revenue Management and Pricing Conference, 2021. <i>Sequential Procurement through Contractual and Experimental Learning</i> , Y. Gur, G. Macnamara, and D. Saban, <i>Management Science</i> , Forthcoming. Finalist in the 2019 Jeff McGill RMP Best Student Paper Prize (Greg Macnamara). <i>Increased Transparency in Procurement: the Role of Peer Effects</i> , R. Beer, I. Rios, and D. Saban, <i>Management Science</i> , 67(12) 7511–7534, 2021. 2nd place in the “2018 Best Working Paper Award” in Behavioral OM.	

Facilitating the search for partners on matching platforms, Y. Kanoria and D. Saban, *Management Science*, 67(10) 5969–6627, 2021.

Preliminary version accepted in the ACM Conference on Economics and Computation (EC), 2017.

Featured Article in the October 2021 issue.

Procurement Mechanisms for Assortments of Differentiated Products, D. Saban and G. Weintraub, *Operations Research*, 69(3), 795–820, 2021.

Preliminary version accepted in the ACM Conference on Economics and Computation (EC), 2015.

Second place in the M&SOM student paper competition.

Optimal Commissions and Subscriptions in Networked Markets, J. Birge, O. Candogan, H. Chen, and D. Saban, *Manufacturing & Service Operations Management (M&SOM)*, 23(3), 569–588, 2021.

Preliminary version accepted in the ACM Conference on Economics and Computation (EC), 2018.

Spatial Pricing in Ride-Sharing Networks, K. Bimpikis, O. Candogan, and D. Saban, *Operations Research*, 67(3), 744–769, 2019.

Accepted for presentation in M&SOM Service SIG, 2017.

Preliminary version accepted in Workshop on the Economics of Networks, Systems and Computation (NetEcon), 2017.

Runner up in the 2021 Service Management SIG Prize.

Convergence to the Core in Assignment Markets, Y. Kanoria, D. Saban, and J. Sethuraman, *Operations Research*, 66(3), 620–636, 2018.

Preliminary version accepted in the ACM-SIAM Symposium on Discrete Algorithms (SODA), 2015.

The Competitive Facility Location Problem in a Duopoly, Y. Gur, D. Saban, and N. Stier-Moses, *Operations Research*, 66 (4), 1058–1067, 2018.

The Complexity of Computing the Random Priority Allocation Matrix, D. Saban and J. Sethuraman, *Mathematics of Operations Research*, 1005–1014, 2015.

Preliminary version accepted in the Conference on Web and Internet Economics (WINE), 2013.

A Note on Object Allocation under Lexicographic Preferences, D. Saban and J. Sethuraman, *Journal of Mathematical Economics*, 50, 283–289, 2014.

A Polyhedral Study of the Maximum Edge Subgraph Problem, F. Bonomo, J. Marenco, D. Saban and N. Stier-Moses, *Discrete Applied Mathematics*, 160:18, 2573–2590, 2012.

An Application of the Traveling Tournament Problem: The Argentine Volleyball League, F. Bonomo, A. Cardemil, G. Durán, J. Marenco and D. Saban, *Interfaces* 42 (3), 245–259, 2012.

Analysis and Models of Bilateral Investment Treaties using a Social Networks Approach, D. Saban, F. Bonomo and N. Stier-Moses, *Physica A* 389(17), 3661–3673, 2010.

Assortment Planning for Sequential Two-sided Matching Markets, I. Ashlagi, A. Krishnaswamy, R. Makhijani, D. Saban, and K. Shiragur.

Minor revision, *Operations Research*.

PAPERS
UNDER
REVIEW

Preliminary version accepted in the Conference on Web and Internet Economics (WINE '20), 2020.

Information Disclosure and Promotion Policy Design for Platforms, Y. Gur, G. Macnamara, I. Morgenstern, and D. Saban.

Major revision, Management Science.

Preliminary version accepted in the Conference on Web and Internet Economics (WINE '21), 2021.

Data Tracking under Competition, K. Bimpikis, I. Morgenstern, and D. Saban.

Major revision, Operations Research.

Preliminary version accepted in the ACM Conference on Economics and Computation (EC '21), 2021.

Selected for a spotlight presentation at the Revenue Management and Pricing Conference, 2021.

The Design of Optimal Pay-as-Bid Procurement Mechanisms, J. Choi, D. Saban, and G. Weintraub.

Major revision, M&SOM.

WORK IN
PROGRESS

Online Display Optimization Under Quality Uncertainty, with Ali Aouad and Je-ok Choi.

Online Algorithms for Matching Platforms with Multi-Channel Traffic, with Vahideh Manshadi, Scott Rodilitz, and Akshaya Suresh.

Preliminary version accepted in the ACM Conference on Economics and Computation (EC '22), 2021.

Platform Design to Increase Resellers' Income in Rural India, with Ilan Morgenstern, Divya Singhvi, and Somya Singhvi.

REFEREED
CONFERENCE
PROCEEDINGS
(NOT ABOVE)

Effect of Selfish Choices in Deferred Acceptance with Short Lists, H. Beyhaghi, D. Saban and E. Tardos, MATCH-UP, 2017.

House Allocation with Indifferences: A Generalization and a Unified View, D. Saban and J. Sethuraman, ACM Conference on Electronic Commerce (EC), 2013.

The Competitive Facility Location Problem in a Duopoly: Connections to the 1-median Problem, D. Saban and N. Stier-Moses, Workshop on Internet & Network Economics (WINE), 2012.

TEACHING

OIT 245: Optimization and Simulation Modeling - Base (core MBA class)

Fall 2016, Fall 2018, Fall 2020, Fall 2021.

OIT 666: Engineering Online Markets (PhD class)

Winter 2018, Winter 2020.

HONORS &
AWARDS

Finalist for the MBA Distinguished Teaching Award, 2021-2022.

Finalist for the MBA Distinguished Teaching Award, 2020-2021.

Honorable mention in the 2020-2021 M&SOM Practice-Based Research Competition.

Winnick Family Faculty Scholar for 2019-2020.

2nd place in the “2018 Best working paper award” in Behavioral OM for “Increased Transparency in Procurement: the Role of Peer Effects”.

Winnick Family Faculty Scholar for 2018-2019.

Google Research Fellowship at the Simons Institute of UC Berkeley, 2015.

Finalist for the Dantzig dissertation award, given annually to the best doctoral dissertation in OR and MS, 2015.

Second place in the M&SOM Student Paper competition, 2015.

The Paul and Sandra Montrone Doctoral Fellowship, 2014.

Columbia University - Glasgow University Exchange Program Fellowship, 2014.

Deming Doctoral Research Fellowship, The W. Edwards Deming Center, 2013.

Doctoral Fellowship, Columbia Business School, 2010 - 2015.

Research Fellowship, [Agencia Nacional de Promoción Científica y Tecnológica](#) (equivalent to NSF), Argentina, 2009 - 2010.

STUDENTS

Greg Macnamara - Stanford GSB (co-advised with Yoni Gur)

Graduation year: 2020

First placement: Core Data Scientist at Facebook Inc.

Ignacio Rios - Stanford GSB

Graduation year: 2020

First placement: Assistant Professor at U.T. Dallas

Je-ok Choi - Stanford ICME (co-advised with Gabriel Weintraub)

Expected graduation date: 2023

Ilan Morgenstern - Stanford GSB (co-advised with Kostas Bimpikis)

Expected graduation date: 2023

Alper Yilmaz - Stanford GSB

Expected graduation date: 2024

Scott Rodilitz - Postdoctoral Advisor, Stanford GSB.

Dissertation Reading Committee:

Jamie Kang - Stanford MS&E. Graduation year: 2022.

Mine Su Erturk - Stanford GSB. Graduation year: 2022.

Wenjia Ba - Stanford GSB. Graduation year: 2022.

Hongfan Chen - Chicago Booth, Operations Management. Graduation year: 2020.

Dissertation University Chair:

Faidra Monachou, Stanford MS&E, 2022.

Nikhil Garg, Stanford MS&E, 2020.

Rahul Makhijani, Stanford MS&E, 2019.

Afshin Nikzad, Stanford Economics, 2019.

INVITED TALKS

2022. (Scheduled) USC - Marshall School of Business; Harvard Business School - TOM; Yale School of Management; University of Michigan - Ross School of Business; UC Berkeley - IEOR; Bumble.

2021. Baruch College - Zicklin School of Business; LUISS - Economics department; Simons Institute for the Theory of Computing; UC Berkeley - Haas School of Business; Cornell - ORIE; University of Chicago - Booth School of Business; Plenary speaker at the Marketplace Innovation Workshop; Plenary speaker at the 32nd International Conference on Game Theory; UC Riverside.

2020. MIT - ORC; University of Pennsylvania - Wharton School; Duke University - Fuqua School of Business; University of Illinois at Urbana-Champaign - ISE.

I was also invited to give plenary talks at the following events which, unfortunately, were canceled due to Covid-19: Johns Hopkins University - New Tools for Markets: Information Design and Blockchains; Marketplace Innovation Workshop; 7th Workshop on Stochastic Methods in Game Theory.

2019. UT Austin - McCombs School of Business; USC - Marshall School of Business; Stanford University - RAIN seminar.

2018. Harvard Business School - TOM; Caltech - SSIL; Cornell - Johnson Graduate School of Management; Uber Marketplace Optimization and Data Science Team.

2017. University of Pennsylvania - Wharton School; Airbnb Data Science

2015. University of Michigan - IOE; UCLA - Anderson School of Management; University of Illinois at Urbana-Champaign - ISE; University of Chicago - Booth School of Business; Bocconi University; INSEAD; Yale School of Management; Carnegie Mellon University - Tepper School of Business; New York University - Stern School of Business; Duke University - Fuqua School of Business; UT Dallas - Naveen Jindal School of Management; Stanford University - Graduate School of Business; University of Michigan - Ross School of Business; Stanford University - MS&E; Harvard University - John F. Kennedy School of Government

2014. Cornell University - ORIE; Cornell University - Johnson Graduate School of Management

COMMUNITY LEADERSHIP

Co-chair of the Dantzig Dissertation Award Committee (2022).

Co-chair of MSOM Service SIG track chairs for the INFORMS 2022 conference.

Co-chair of the EC Workshop on the Design of Online Platforms, July 2021.

Board member of the INFORMS Revenue Management and Pricing Section, 2019 – 2021.

Co-organizer of “Marketplace Algorithms and Design” (along with Gagan Goel and Yash Kanoria) a weekly online seminar during summer 2020.

Co-chair of the Revenue Management and Pricing INFORMS conference, Stanford, June 2019.

Co-chair of the Revenue Management Track for the INFORMS annual meeting, 2019.

Co-organizer of the EC-AGT Mentoring Workshop (AMW), 2019.

PROFESSIONAL SERVICE

Associate Editor in Operations Research (2021 - present).

Associate Editor in Operations Research Letters (2021 - present).

Associate Editor in Management Science (2021 - present).

Associate Editor in Manufacturing & Service Operations Management (M&SOM) (2021 - present).

Associate Editor in Mathematics of Operations Research (2020 - present).

Co-PhD Liaison OIT Group at Stanford GSB (2021-present).

Member: Dantzig Dissertation Award Committee (2021).

Judge: Nicholson Student Paper Competition, M&SOM Student Paper Competition (2021).

Area Chair in EC'21.

SPC member in EC'20, EC'19, WINE'18, WINE'20, WINE'21.

PC member in EC'16, EC'17, EC'18.

Reviewer for Management Science, Operations Research, Mathematics of Operations Research, MSOM, Games and Economic Behavior, Journal of Economic Theory.