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EDUCATION	<p>Massachusetts Institute of Technology, Cambridge, MA 2009 - 2013 PhD in Electrical Engineering and Computer Science (Minor in Economics) Thesis: Dynamic Strategic Interactions: Analysis and Mechanism Design Committee: Prof. Daron Acemoglu, Prof. Asuman Ozdaglar (advisor), Prof. Pablo Parrilo (advisor), Prof. Georgia Perakis.</p> <p>Massachusetts Institute of Technology, Cambridge, MA 2007 - 2009 MS in Electrical Engineering and Computer Science Thesis: Potential Games and Competitive Scheduling in Wireless Networks Advisors: Prof. Asuman Ozdaglar and Prof. Pablo Parrilo.</p> <p>Bilkent University, Ankara, Turkey 2003 - 2007 BS in Electrical and Electronics Engineering</p>
WORK EXPERIENCE	<p>University of Chicago, Chicago, IL 2015 (July) - Present Booth School of Business Operations Management Area Associate Professor of Operations Management (Assistant Professor between July 2015 & July 2018)</p> <p>Duke University, Durham, NC 2013 (July) - 2015 (June) Fuqua School of Business Decision Sciences Area Assistant Professor</p> <p>Massachusetts Institute of Technology, Cambridge, MA 2007 - 2013 Research/Teaching Assistant</p> <p>Microsoft Research New England, Cambridge, MA Summer 2010, 2011 Research Intern; Mentors: Jennifer Chayes, Christian Borgs</p>
RESEARCH INTERESTS	<p>Impact of networks on operational decisions: The role of social and economic networks in operational settings; improving firms' pricing, advertising, production, and procurement decisions using available network information; competition, intermediation, and risk propagation in networked systems.</p> <p>Complex social and economic systems and new methodologies: Developing novel approaches and tools for the analysis of complex social and economic systems; trading network models, discrete convexity, and network flows; games on networks, decompositions of games, approximate characterization of equilibria and limiting behavior of dynamics in games; compact network models of preferences and their applications in pricing and auction design.</p> <p>Application areas: Online social networks, ride-sharing networks, supply chain networks, online advertising, cloud computing, energy networks.</p>
AWARDS & HONORS	<ul style="list-style-type: none">• Winner of the LinkedIn Economic Graph Challenge 2015• George Nicholson Student Paper Competition Finalist 2013• Microsoft Research PhD Fellow 2012• Siebel Scholarship (MIT) for academic achievement and excellence 2009• Bilkent University High Honors student with full scholarship 2003 - 2007

- The Scientific and Technological Research Council of Turkey Project Contest, Physics, 2nd place 2003
- Ranked 55th in the University Entrance Exam in Turkey among approximately 1.5 million students 2003

JOURNAL
PUBLICATIONS

- J1. Kostas Bimpikis, Ozan Candogan, and Daniela Saban. Spatial pricing in ride-sharing networks. Forthcoming in *Operations Research*.
- J2. Ozan Candogan and Aleksandar Pekec. Efficient Allocation and Pricing of Multi-Featured Items. Forthcoming in *Management Science*, 2018.
- J3. Ozan Candogan, Asuman Ozdaglar, and Pablo A Parrilo. Pricing equilibria and graphical valuations. *ACM Transactions on Economics and Computation*, 2018.
- J4. Ozgur Dalkilic, Ozan Candogan, and Atilla Eryilmaz. Dayahead Electricity Pricing for a Heterogeneous Microgrid under Arbitrary Utility and Cost Structures. Forthcoming in *Transactions on Smart Grid*.
- J5. Santiago R Balseiro and Ozan Candogan. Optimal contracts for intermediaries in online advertising. *Operations Research*, 65(4):878–896, 2017.
- J6. Yang Cai, Ozan Candogan, Constantinos Daskalakis, and Christos Papadimitriou. Zero-sum polymatrix games: A generalization of minmax. *Mathematics of Operations Research*, 41(2):648–655, 2016.
- J7. Ozan Candogan, Asuman Ozdaglar, and Pablo A Parrilo. Iterative auction design for tree valuations. *Operations Research*, 63(4):751–771, 2015.
- J8. Christian Borgs, Ozan Candogan, Jennifer Chayes, Ilan Lobel, and Hamid Nazerzadeh. Optimal multiperiod pricing with service guarantees. *Management Science*, 60(7):1792–1811, 2014.
- J9. Ozan Candogan, Asuman Ozdaglar, and Pablo A Parrilo. Dynamics in near-potential games. *Games and Economic Behavior*, 82:66–90, 2013a.
- J10. Ozan Candogan, Asuman Ozdaglar, and Pablo A Parrilo. Near-potential games: Geometry and dynamics. *ACM Transactions on Economics and Computation*, 1(2):11:1–11:32, 2013b.
- J11. Ozan Candogan, Kostas Bimpikis, and Asuman Ozdaglar. Optimal pricing in networks with externalities. *Operations Research*, 60(4):883–905, 2012.
- J12. Ozan Candogan, Ishai Menache, Asuman Ozdaglar, and Pablo A Parrilo. Flows and decompositions of games: Harmonic and potential games. *Mathematics of Operations Research*, 36(3):474–503, 2011.

WORKING
PAPERS

- W1. Kostas Bimpikis, Ozan Candogan, and Shayan Ehsani. Supply disruptions and optimal network structures, 2017. Minor revision requested from *Management Science*.
- W2. Santiago Balseiro, Ozan Candogan, and Huseyin Gurkan. Multi-stage intermediation in display advertising, 2017. Major revision requested from *Operations Research*.
- W3. Ozan Candogan, Markos Epitropou, and Rakesh V Vohra. Competitive equilibrium and trading networks: A network flow approach, 2017. Under review in *Operations Research* (preliminary version appeared in 2016 *ACM Conference on Economics and Computation*).
- W4. Ozan Candogan and Kimon Drakopoulos. Optimal signaling of content accuracy: Engagement vs. misinformation, 2017. Under review in *Operations Research*.
- W5. John Birge, Ozan Candogan, Hongfan Chen, and Daniela Saban. Optimal Commissions & Subscriptions in Networked Markets, 2018. Working paper.

WORK IN PROGRESS	O1. Baris Ata, Alex Belloni, and Ozan Candogan. Latent agents in networks: Estimation and pricing, 2017. Work in progress.
PATENTS	<p>P1. Jason Schissel, Ozan Candogan, Kimon Drakopoulos. “Bridging skills gap,”US20170213179 A1, 2017.</p> <p>P2. Christian Borgs, Ozan Candogan, Jennifer Chayes, Ilan Lobel, and Hamid Nazerzadeh. “Pricing Mechanisms for Perishable Time-Varying Resources,”US20120095940 A1, 2012.</p>
PAPERS ACCEPTED IN PEER- REVIEWED CONFERENCE PROCEEDINGS AND OTHER PUBLICATIONS	<p>C1. John Birge, Ozan Candogan, Hongfan Chen, and Daniela Saban. Optimal Commissions & Subscriptions in Networked Markets. In <i>ACM Conference on Economics and Computation (EC)</i>, 2018.</p> <p>C2. Kostas Bimpikis, Ozan Candogan, and Daniela Saban. Spatial pricing in ride-sharing networks. In <i>Workshop on the Economics of Networks, Systems and Computation (NetEcon)</i>, 2017.</p> <p>C3. Ozan Candogan, Markos Epitropou, and Rakesh V Vohra. Competitive equilibrium and trading networks: A network flow approach. In <i>ACM Conference on Economics and Computation (EC)</i>, 2016.</p> <p>C4. Ozgur Dalkilic, Ozan Candogan, and Atilla Eryilmaz. Pricing algorithms for the day-ahead electricity market with flexible consumer participation. In <i>IEEE INFOCOM Smart Data Pricing Workshop</i>, 2013.</p> <p>C5. Ozan Candogan, Asuman Ozdaglar, and Pablo A Parrilo. Learning in near-potential games. In <i>IEEE Conference on Decision and Control and European Control Conference (CDC-ECC)</i>, 2011a.</p> <p>C6. Ozan Candogan, Kostas Bimpikis, and Asuman Ozdaglar. Optimal pricing in social networks. <i>ACM SIGecom Exchanges</i>, 10(3):15–17, 2011b.</p> <p>C7. Ozan Candogan, Ishai Menache, Asuman Ozdaglar, and Pablo A Parrilo. Near-optimal power control in wireless networks: A potential game approach. In <i>IEEE International Conference on Computer Communications (INFOCOM)</i>, 2010a.</p> <p>C8. Ozan Candogan, Kostas Bimpikis, and Asuman E Ozdaglar. Optimal pricing in the presence of local network effects. In <i>Workshop on Internet and Network Economics (WINE)</i>, 2010b.</p> <p>C9. Ozan Candogan, Asuman Ozdaglar, and Pablo A Parrilo. A projection framework for near-potential games. In <i>IEEE Conference on Decision and Control (CDC)</i>, 2010c.</p> <p>C10. Ozan Candogan, Ishai Menache, Asuman Ozdaglar, and Pablo A. Parrilo. Dynamics in near-potential games. In <i>Annual Allerton Conference on Communication, Control, and Computing (Allerton)</i>, 2010d.</p> <p>C11. Ozan Candogan, Ishai Menache, Asuman Ozdaglar, and Pablo A Parrilo. Competitive scheduling in wireless collision channels with correlated channel state. In <i>IEEE International Conference on Game Theory for Networks (GameNets)</i>, 2009.</p> <p>C12. Ozan Candogan, Hitay Özbay, and Haldun M Ozaktas. Controller implementation for a class of spatially-varying distributed parameter systems. In <i>International Federation of Automatic Control World Congress (IFAC)</i>, 2008.</p>
TEACHING EXPERIENCE	<p>Instructor Spring 2016, Winter 2017, Winter 2018 <i>40000 – Operations Management: Business Process Fundamentals</i> (MBA) University of Chicago</p> <p>Instructor Winter 2018 <i>36911 – Networks: Introduction to Modeling and Analysis</i> (PhD)</p>

University of Chicago	
Instructor <i>36908 – Networks II: Introduction to Modeling and Analysis</i> (PhD) University of Chicago	Spring 2017
Instructor <i>36907 – Networks I: Introduction to Modeling and Analysis</i> (PhD) University of Chicago	Winter 2016
Instructor <i>611C – Decision Models</i> (Cross continent MBA) Duke University	Spring 2015
Instructor <i>611W – Decision Models</i> (Weekend MBA) Duke University	Winter 2014
Teaching assistant <i>15.066 – System Optimization and Analysis</i> (Sloan LGO Program) Massachusetts Institute of Technology	Summer 2012
Teaching assistant <i>6.207 – Networks</i> (Undergraduate) Massachusetts Institute of Technology	Fall 2009

INVITED TALKS AND CONFERENCE PRESENTATIONS	Spatial Pricing in Ride-sharing Networks	
	• Network Science in Economics Conference, Vanderbilt University	2018
	• INSEAD	2017
	• UIC Business School, IDS Seminars	2017
	• Massachusetts Institute of Technology	2017
	• CMU, Heinz College	2017
	• Universitat Pompeu Fabra, Statistics and Operations Research Seminar	2017
	• USC Marshall School of Business, Operations Management Seminar	2017
	• NetEcon Workshop, Cambridge, MA	2017
	• MSOM Conference, Service SIG, Chapel Hill	2017
	• Applied Probability Society Conference, Evanston	2017
	• Marketplace Innovation Workshop, Palo Alto	2017
	• Networks, Matching, and Platforms Workshop, Denver	2017
	• Informs Annual Meeting, Nashville/Houston	2016, 2017
	Optimal Commissions & Subscriptions in Networked Markets	
	• Economics and Computation Conference	2018
	Optimal Signaling of Content Accuracy	
	• 29th International Conference on Game Theory, Stony Brook (Plenary Talk)	2018
	• Symposium on Social and Economic Networks, Monash University	2018
	• Economics and Computation Conference (poster)	2018
	• Network Science in Economics Conference, Vanderbilt University	2018
	• Facebook Research, Menlo Park	2017
	• Stanford University, GSB, OIT Seminar	2017

Latent Agents in Networks: Estimation and Pricing

- MSOM Conference, Chapel Hill 2017
- Informs Annual Meeting, Nashville 2016

Competitive Equilibrium in Trading Networks: A Network Flow Approach

- MIT, Laboratory for Information and Decision Systems 2017
- NSF Conference on Network Science, St. Louis 2017
- Informs Annual Meeting, Nashville 2016
- Informs International Meeting, Waikoloa 2016

Intermediation in Online Advertising

- Informs Annual Meeting, Nashville 2016
- Informs International Meeting, Waikoloa 2016
- UIUC Decision and Control Seminar, Urbana-Champaign 2016
- Kellogg School of Management, Operations Seminar, Evanston 2016
- HKUST OM/IE Seminar, Hong Kong 2015
- INSEAD DS/TOM Seminar, Singapore 2015
- NUS Business School Decision Science Seminar, Singapore 2015
- University of Toronto, Rotman School of Business, Toronto 2015
- Informs Annual Meeting, Philadelphia 2015
- ISMP Conference, Pittsburgh 2015
- Ad Auctions Workshop, Portland, OR 2015
- MSOM Conference, Toronto 2015
- Revenue Management Conference, New York 2015
- Stanford RAIN Seminar 2015
- Yahoo! Labs Seminar, Sunnyvale 2015
- POMS Conference, Washington D.C. 2015
- University of Chicago, Booth School of Business 2014
- Duke University, Fuqua School of Business, Decision Sciences Seminar 2014

Supply Disruptions and Optimal Network Structures

- UIUC Operations Seminar, Urbana-Champaign 2016
- IMA Workshop on Analysis and Control of Network Dynamics, U. of Minnesota 2015
- Tuck School of Business, Dartmouth College, Hanover 2015
- MSOM Conference, Supply Chain SIG, Toronto 2015
- POMS Conference, Washington D.C. 2015
- INFORMS Annual Meeting, San Francisco 2014

Efficient Iterative Auctions for Multi-featured Items

- University of Maryland, Smith School of Business 2014
- Microsoft Research Lab, New York 2014
- Revenue Management and Pricing Conference, Istanbul 2014

Iterative Auction Design for Graphical Valuations

- INFORMS Annual Meeting, Minneapolis 2013
- University of Chicago, Booth School of Business 2013
- Duke University, Fuqua School of Business 2013

- Stanford University, GSB 2013
- Columbia University, GSB 2013
- NYU, Stern School of Business 2013
- Stanford University, MS&E 2013
- Purdue University, Krannert School of Management 2013
- USC, Marshall School of Business 2013
- University of Pennsylvania, Electrical and Systems Engineering 2013
- Johns Hopkins University, Carey Business School 2013
- University of Michigan, Ross School of Business 2013
- Microsoft Research, Cambridge, MA 2013
- MSOM Conference, New York 2012

Optimal Pricing in Networks with Externalities

- POMS Conference, Chicago 2012
- Cambridge Area Economics and Computation Day (poster), Harvard University 2011
- 49th Annual Allerton Conference, Allerton 2011
- LIDS Student Conference, MIT 2011

Optimal Multi-period Pricing with Service Guarantees

- Bilkent University, Industrial Engineering Department, Ankara 2014
- INFORMS Annual Meeting, Charlotte 2011
- MSOM Conference, Ann Arbor 2011
- Revenue Management Conference, New York 2011

Decomposition of Games: Harmonic and Potential Games

- Workshop on Congestion Games, IMS, NUS, Singapore 2015
- 23rd Stony Brook Game Theory Festival, Stony Brook University 2012
- LIDS Advisory Committee Meeting, MIT (poster) 2012
- Market and Social Systems Engineering Seminar, University of Pennsylvania 2011
- 49th IEEE Conference on Decision and Control, Atlanta 2010
- Workshop on Decentralized Control in Systems of Strategic Actors, Santa Fe Institute 2010
- Northeast Control Workshop, The Johns Hopkins University 2010
- LIDS Student Conference, MIT 2010

Dynamics in Near-potential Games

- 50th IEEE Conference on Decision and Control and European Control Conference, Orlando 2011
- INFORMS Annual Meeting, Charlotte 2011
- 48th Annual Allerton Conference, Allerton 2010

PROFESSIONAL Reviewer Service

ACTIVITIES

- Editorial: *Networks* (Wiley Journal) – Associate Editor.
Naval Research Logistics – Associate Editor.
- Journals: *Operations Research*, *Management Science*, *Manufacturing & Service Operations Management*, *Mathematics of Operations Research*, *American Economic Review*, *Journal of Economic Theory*, *Games and Economic Behavior*, *Theoretical Economics*, *American Economic Journal: Microeconomics*, *International Journal of Game Theory*, *Marketing Review*, *Networks*, *Operations Research Letters*, *IEEE Internet Computing*.

Workshop/Conference Organization

- Program committee member for the *Conference on Web and Internet Economics (WINE)*, 2018.
- Senior program committee member for the *ACM Conference on Economics and Computation (EC)*, 2018.
- Organizer of the *Workshop on Social and Economic Networks*, Booth School of Business, 2017.
- Program committee member for the *Workshop on the Economics of Networks, Systems and Computation (NetEcon)*, 2017.
- Organizer of the Cluster on Sharing Economy, Matching Markets, and Networks, *Informs International Conference*, 2016.
- Program committee member for the *ACM Conference on Economics and Computation (EC)*, 2014 and 2016.
- Organizer of various sessions in *Informs Annual Meetings*, 2014-2017.
- Organizer of the Stream on Social and Economic Networks, *IFORS*, 2014.