

Nur Kaynar

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Education

University of California, Los Angeles
Anderson School of Management
Ph.D., Operations Research

2017-2022 (*expected*)

Bilkent University, Turkey
M.Sc., Industrial Engineering

2015-2017

Bilkent University, Turkey
B.Sc., Industrial Engineering

2010-2015

Research Interests

Causal Inference ■ Large-scale Optimization ■ Machine Learning ■ Econometrics ■ Fairness ■
Data-driven Decision-making

Publications

Discovering Causal Models via Optimization: Confounders, Cycles, and Feature Selection.
with Auyon Siddiq, Frederick Eberhardt.
Under review, *Management Science*.
Available online: <http://ssrn.com/abstract=3873034>

Estimation of a Non-Parametric Principal-Agent Model with Hidden Actions.
with Auyon Siddiq.
Major revision, *Management Science*.
Available online: <https://papers.ssrn.com/abstract=3431383>

Data-driven decision support tools for water systems.
with Michelle Miro, Aisha Najera Chesler, Kelsea Best, and Rachel Kirpes.
Forthcoming in *Environmental Science and Policy*.

Approaches to analyzing the vulnerability of community water systems to groundwater contamination in Los Angeles County.
with Michelle Miro, Aisha Najera Chesler, Kelsea Best, and Rachel Kirpes.
Research in Mathematics and Public Policy. Springer, Cham, 19-28, 2020.

Equitable decision making approaches over allocations of multiple benefits to multiple entities
with Özlem Karsu.
Omega. 81:85-98, 2017.

Conferences and Talks

Discovering Causal Models with Optimization

- INFORMS Annual Meeting, October 2021 (scheduled)
- INFORMS Healthcare Conference, July 2021
- California Institute of Technology, July 2021
- Imperial-LBS-UCL ORMS Seminars, June 2021

- o MSOM Conference, June 2021
- o INFORMS Annual Meeting, November 2020

Learning Hidden Action Principal-Agent Models

- o INFORMS Annual Meeting, October 2019

A Spatial Model of the Opioid Epidemic in California

- o INFORMS Annual Meeting, October 2018

Handling Multi-Dimensional Efficiency and Equity Concerns

- o IMA and OR Society Conference on Mathematics of Operational Research, April 2017

Service

Session co-chair (Causality, Machine Learning, and Optimization, with Auyon Siddiq), INFORMS Annual Meeting, 2021.

Member of the technical program committee and referee for 20th IEEE 2021 International Conference on Machine Learning and Applications (ICMLA, 2021).

Committee member and referee for 37th Conference on Uncertainty in Artificial Intelligence (UAI, 2021).

Committee member for 8th Causal Inference Workshop at 37th Conference on Uncertainty in Artificial Intelligence (UAI, 2021).

Workshops

Causality, 2022. **Simons Institute for Theory and Computing**, University of California, Berkeley (scheduled).

Women in Mathematics and Public Policy, 2019. **Institute for Pure & Applied Mathematics**, University of California, Los Angeles.

Causal Discovery & Causality-Inspired Machine Learning, 2020. **Conference on Neural Information Processing Systems (NeurIPS)**.

Awards and Honors

Dissertation Year Fellowship. UCLA Graduate Education. 2021-2022

Four year PhD Fellowship. UCLA Anderson School of Management. 2017-2021

Dean's Award for Academic Excellence in Masters Studies. Bilkent University. 2016

Teaching

Anderson School of Management, **University of California, Los Angeles**

Data and Decisions, Executive MBA Program Teaching Assistant, Summer 2021

Data and Decisions, Fully-Employed MBA Program Teaching Assistant, Fall 2020

Data and Decisions, Executive MBA Program Teaching Assistant, Fall 2020

Optimization, Master of Business Analytics Program Teaching Assistant, Fall 2019

Data and Decisions, Executive MBA Program Teaching Assistant, Summer 2019

Data and Decisions, MBA Program Teaching Assistant, Fall 2018