

Faidra Monachou

CONTACT INFORMATION	<i>Address:</i> Evans Hall, Rm 3475, 165 Whitney Avenue, New Haven, CT 06511 <i>Email:</i> faidra.monachou@yale.edu <i>Website:</i> https://faidramonachou.github.io
RESEARCH INTERESTS	Market Design, Information Design, Operations for Education, Fairness and Equity.
ACADEMIC APPOINTMENTS	Yale University 2023 - present School of Management <i>Assistant Professor of Operations Management</i> <ul style="list-style-type: none">• <i>Faculty Fellow</i>, Center for Algorithms, Data, and Market Design at Yale (CADMY) Harvard University 2022 - 2023 Center of Mathematical Sciences and Applications <i>Postdoctoral Fellow</i>
EDUCATION	Stanford University Ph.D. in Management Science and Engineering (Operations Research) 2022 <ul style="list-style-type: none">• <i>Dissertation:</i> Information and Fairness in Resource Allocation Problems• <i>Advisor:</i> Prof. Itai Ashlagi M.Sc. in Management Science and Engineering 2020 National Technical University of Athens, Greece B.Sc. in Electrical and Computer Engineering 2015
SELECTED HONORS AND AWARDS	First Place, INFORMS DEI Best Student Paper Award (inaugural) 2022 Best Paper with a Student Presenter Award, ACM EAAMO'21 2021 Rising Star in Data Science, University of Chicago 2021 Rising Star in EECS, MIT 2021 Stanford HAI Graduate Fellowship (inaugural) 2021 - 2022 Stanford Data Science Scholarship 2020 - 2022 Google Women Techmakers (Anita Borg) Scholarship 2020 - 2021 McCoy Center for Ethics in Society Graduate Fellowship 2020 - 2021 Gerondelis Foundation Graduate Study Scholarship 2018 Thomas V. Jones Stanford Graduate Fellowship 2016 - 2018 Second Prize, 67th National Mathematical Competition, Greece 2007

GRANTS	<p>ACM SIGAI Activities Fund for MD4SG'20 (with F. Marmolejo-Cossio) 2020</p> <p>A.G. Leventis Foundation Grant 2018 - 2021</p>
RESEARCH PAPERS	<p><i>Dropping Standardized Testing for Admissions Trades Off Information and Access</i> N. Garg, H. Li, F. Monachou. ACM FAccT 2021, ACM EAAMO 2021. Major Revision at Management Science.</p> <ul style="list-style-type: none"> • <i>Best Paper with a Student Presenter Award at ACM EAAMO 2021.</i> • <i>Winner, 2022 INFORMS DEI Best Student Paper Award.</i> • Invited presentation at NBER Decentralization 2021. <p><i>Optimal Dynamic Allocation: Simplicity through Information Design</i> I. Ashlagi, F. Monachou, A. Nikzad. The Review of Economic Studies (forthcoming).</p> <ul style="list-style-type: none"> • Preliminary version appeared at ACM EC 2021. <p><i>Costly Signaling with Heterogeneous Outside Options</i> I. Ashlagi, F. Monachou, A. Nikzad.</p> <p><i>Counterbalancing Learning and Strategic Incentives in Allocation Markets</i> J. Kang, F. Monachou, M. Koren, I. Ashlagi. NeurIPS 2021.</p> <ul style="list-style-type: none"> • Preliminary version appeared at the Workshop on Operations of People-Centric Systems at ACM EC 2021. <p><i>Online Platforms and the Fair Exposure Problem under Homophily</i> J. Schoeffer, A. Ritchie, K. Naggita, F. Monachou, J. Finocchiaro, M. Juarez. AAAI 2023.</p> <p><i>Bridging Machine Learning and Mechanism Design towards Algorithmic Fairness</i> J. Finocchiaro, R. Maio, F. Monachou, G. Patro, M. Raghavan, A. Stoica, S. Tsirtsis. ACM FAccT 2021.</p> <ul style="list-style-type: none"> • Preliminary version appeared at Harvard CRCS AI for Social Good workshop 2020. <p><i>Discrimination in Online Markets: Effects of Social Bias on Learning from Reviews and Policy Design</i> F. Monachou, I. Ashlagi. NeurIPS 2019.</p>
RESEARCH IN PROGRESS	<p><i>Balancing Performance and Equity in Student Cohort Partitions</i> S. Goulas, F. Monachou.</p> <p><i>The Role of Privilege in Statistical Discrimination</i> F. Monachou, I. Ashlagi, C. Raymond.</p>
BULLETINS	<p><i>Fairness and Equity in Resource Allocation and Decision-Making: An Annotated Reading List</i> F. Monachou, A. Stoica. ACM SIGecom Exchanges 2022 (20.1) (invited)</p> <p><i>Novel Practices and Highlights from the Fourth Workshop on Mechanism Design for Social Good</i> F. Marmolejo-Cossio, F. Monachou. ACM SIGAI AI Matters 2021 (7.3)</p>
VISITING POSITION	<p>UC Berkeley Simons Institute November 2022 Program on “Data-Driven Decision Processes” <i>Visiting Scholar</i></p>
INVITED TALKS AND SELECTED CONFERENCE PRESENTATIONS	<p><i>Costly Signaling with Heterogeneous Outside Options</i></p>

- INFORMS Annual Meeting 2022 *October 2022*

Discrimination, Diversity, and Information in College Admissions Policies

- Boston University Computing and Data Sciences *March 2022*
- University of Chicago Booth School of Business *February 2022*
- Columbia Business School *February 2022*
- Yale School of Management *January 2022*
- Boston University Questrom School of Business *January 2022*
- MIT Sloan School of Management *January 2022*
- USC Industrial and Systems Engineering *January 2022*
- Northwestern Kellogg School of Management *January 2022*
- University of Michigan Ross School of Business *January 2022*
- Duke Fuqua School of Business *January 2022*
- Cornell ORIE *December 2021*
- Cornell Tech *December 2021*
- UBC Sauder School of Business *December 2021*
- Imperial College Business School *November 2021*
- Rising Stars in Data Science, University of Chicago *November 2021*
- INFORMS Annual Meeting 2021 *October 2021*
- Cornell ORIE Young Researchers Workshop, Ithaca, NY *October 2021*

Dropping Standardized Testing for Admissions Trades Off Information and Access

- INFORMS Annual Meeting 2022 DEI award session *October 2022*
- ACM EAAMO 2021 conference *October 2021*
- INFORMS Revenue Management and Pricing (RMP) 2021 *June 2021*
- Stanford Data Science seminar *June 2021*
- Marketplace Innovation Workshop (MIW) 2021 *May 2021*
- NBER Decentralization conference *April 2021*
- TOC for Fairness seminar, Simons Institute initiative *March 2021*
- ACM FAccT 2021 conference *March 2021*
- NeurIPS 2020 Women in Machine Learning workshop *December 2020*

Optimal Dynamic Allocation: Simplicity through Information Design

- Harvard CMSA Seminar *April 2023*
- ACM EC 2021 conference *June 2021*
- INFORMS Annual Meeting 2020 *November 2020*
- INFORMS Annual Meeting 2019 *November 2019*

Bridging Machine Learning and Mechanism Design towards Algorithmic Fairness

- ACM FAccT 2021 conference *March 2021*
- Princeton University, JuST seminar *October 2020*

Discrimination in Online Markets: Effects of Social Bias on Learning from Reviews and Policy Design

- INFORMS Annual Meeting 2020 *November 2020*
- SOAL seminar, Stanford University *February 2020*
- Marketplace Innovation Workshop (MIW) 2019, Stanford University *June 2019*
- NeurIPS 2019 conference *December 2019*

TEACHING

Yale University

Course Developer & Instructor

- MGT 507: Operations Management (Public Education Management) *Summer 2023*

Stanford University

Teaching Assistant

- MS&E 232: Introduction to Game Theory *Winter 2020*
- MS&E 260: Introduction to Operations Management *Summer 2017, Fall 2018*

National Technical University of Athens

Teaching Assistant

- Algorithms and Complexity *Fall 2015*
- Introduction to Programming *Fall 2015*

Guest Lectures

- *Harvard University*, Market Design *Spring 2022*
- *Stanford University*, Market Design & Resource Allocation in Non-Profit Settings *Fall 2020*

WORKSHOP AND
TUTORIAL
ORGANIZATION

Fourth Workshop on Mechanism Design for Social Good (MD4SG'20) *August 2020*

Co-chair

- Related article: "*Mechanism Design for Social Good workshop sets example for diversity and social good in research,*" Stanford MS&E Highlights, October 2020.

EC'21 Tutorial

July 2021

[Fairness and Discrimination through the Dual Lens of Mechanism Design and Machine Learning](#)

Co-organizer

LEADERSHIP AND
ACADEMIC SERVICE

Yale SOM Operations Seminar Series

2023-2024

Organizer

Harvard CMSA Colloquium

Fall 2022

Co-organizer

MD4SG/ EAAMO Faculty Network

2022 - present

Co-organizer

Stanford Data Science for Social Good (DSSG) summer program

Summer 2021

Co-organizer, Head mentor

Mechanism Design for Social Good (MD4SG)

2019 - 2021

Working group co-organizer

– *Bias, Discrimination, and Fairness* (Fall 2019, Spring 2020, Fall 2020)

– *Discrimination and Equity in Algorithmic Decision-making* (Spring 2021)

Stanford MS&E RAIN Seminar

2019 - 2020

Student co-organizer

Program Committee Co-Chair: MD4SG'20

Area Chair: ACM FAccT 2024, ACM EAAMO 2023

Program Committee: TheWebConf 2024, AAAI 2024 AI for Social Impact, ACM EC 2023, ACM FAccT 2023, TheWebConf 2023, AAAI 2023, WINE 2022, ACM EAAMO 2022, ACM FAccT 2022, NeurIPS 2022, ICLR 2022, ACM EAAMO 2021, NeurIPS 2021, NeurIPS 2021 Datasets and Benchmarks, ACM EC 2021 Operations of People-Centric Systems

Referee for journals: Operations Research, Management Science, M&SOM

Judge: PSOR Best Paper Award 2023

Subreviewer for conferences: WINE 2020, 2019

Mentor: NeurIPS 2020 Women in Machine Learning Workshop

OTHER EXTERNAL ENGAGEMENT	Interview, <i>“Socioeconomics of Disruptive Tech” #007</i> , Rethinking Economics NL 2021 Expert, <i>“AI for Gender Equality”</i> , Women in AI & Vinnova (Sweden’s Innovation Agency) 2021 Speaker & panelist, <i>Data Feminism</i> 2020
PROFESSIONAL EXPERIENCE	Microsoft , Redmond, WA <i>Summer 2019</i> <i>Data Scientist Intern</i> <ul style="list-style-type: none">• <i>Applications:</i> Deep Learning, Security National Center for Scientific Research “Demokritos” , Greece <i>Summer 2013</i> <i>Research Intern</i> <ul style="list-style-type: none">• <i>Research areas:</i> Natural Language Processing, Algorithms