

# MERYEM ESSAIDI

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## RESEARCH INTERESTS

Theoretical foundations of incentive-aware algorithms that promote fairness and social welfare in economic systems, markets, and resource allocation networks.

## ACADEMIC APPOINTMENTS

**Postdoctoral Researcher** 2023-2025  
UC Berkeley and BIDS  
Advisors: Jennifer Chayes and Christian Borgs

## EDUCATION

**Princeton University** 2017-2023  
Ph.D. in Theoretical Computer Science  
M.A. in Computer Science, 2019  
Advisor: S. Matthew Weinberg

**University of Pennsylvania** 2012-2016  
M.S.E. and B.S.E. in Computer Science  
Minors: Mathematics, Economics

## SELECTED RESEARCH

**Optimal Resource Allocation in Income Redistribution Networks** with Christian Borgs, Jennifer Chayes, and Chris Ikeokwu. *Working paper*, 2025.

**Algorithmic Ecosystems: Optimizing in Decentralized Markets** with Sam Taggart. *Working paper*, 2024.

**Credible, Strategyproof, Optimal, and Bounded Expected-Round Single-Item Auctions for All Distributions** with Matheus V. X. Ferreira and S. Matthew Weinberg. *ITCS 2022*, pp. 66:1–66:19.

**On Symmetries and Fairness in Multi-Dimensional Mechanism Design** with S. Matthew Weinberg. *WINE 2021*, pp. 59–75.

**When to Limit Market Entry under Mandatory Purchase** with Kira Goldner and S. Matthew Weinberg. *MD4SG 2019*.

**Predicting Startup Crowdfunding Success through Social Engagement Analysis** with Qizhen Zhang, Tengyuan Ye, Shivani Agarwal, Vincent Liu, and Boon Thau Loo. *CIKM 2017*.

## WORK EXPERIENCE

**University of Pennsylvania, Philadelphia** 2016-2017  
Research Assistant, advised by Boon Thau Loo

**Google, New York City** May - Aug 2015  
SWE Intern in the Superroot Team

**Google, Mountain View** May - Aug 2014  
Engineering Practicum Intern in the Local Search Team

## TEACHING EXPERIENCE

**Princeton University – Teaching Assistant**

- COS 521: Advanced Algorithm Design (Fall 2019)
- COS 445: Economics and Computation (Spring 2019-2021)

**University of Pennsylvania – Teaching Assistant**

- CIS 350: Software Engineering (Spring 2016)
- CIS 262: Automata, Complexity, and Computability (Spring 2015, Fall 2015-2016)
- CIS 240: Introduction to Computer Systems (Fall 2014)
- CIS 160: Mathematical Foundations of Computer Science (Fall 2013, Spring 2014)

## TECHNICAL SKILLS

**Programming:** Python, Java, C, OCaml, Unix/Linux

**Languages:** Arabic, French, English, Spanish

## SERVICE

**Selected Talks:** ITCS 2022, Berkeley EAAMO 2022, ACM EAAMO 2021, MD4SG 2019 & 2018, WINE Lightning Talks 2020

**Program Committee:** EAAMO 2021-2022, MD4SG 2020

**Conference Reviewer:** WINE 2018-2021, ITCS 2019, ESA 2019

**Co-Organizer:** Princeton Research Inclusion Social Event (RISE) 2020-2023 — *Monthly discussions on diversity and inclusion in CS with faculty, postdocs, and graduate students*