

MERYEM ESSAIDI

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DISCIPLINARY FIELD

My research is in the areas of algorithms, algorithmic game theory, mechanism design, and their applications to social good, inequality, and distributive justice.

EDUCATION

Princeton University, Princeton

May 2017 - Present

PhD Candidate in Theoretical Computer Science

M.A. in Computer Science

Adviser: S. Matthew Weinberg

University of Pennsylvania, Philadelphia

August 2012 - December 2016

Master of Science in Engineering

Bachelor of Science in Engineering

Major: Computer Science - Minors: Mathematics, Economics

PUBLICATIONS & PROJECTS

Meryem Essaidi, Matheus V. X. Ferreira, and S. Matthew Weinberg. Credible, Strategyproof, Optimal, and Bounded Expected-Round Single-Item Auctions for All Distributions. In *13th Innovations in Theoretical Computer Science Conference (ITCS 2022)*, pages 66:1–66:19, Dagstuhl, Germany, 2022. Schloss Dagstuhl – Leibniz-Zentrum für Informatik.

Meryem Essaidi, and S. Matthew Weinberg. On Symmetries and Fairness in Multi-Dimensional Mechanism Design. In *17th International Conference on Web and Internet Economics (WINE 2021)*, pages 59–75, vol 13112. Springer, Cham.

Meryem Essaidi, Kira Goldner, and S. Matthew Weinberg. When to Limit Market Entry under Mandatory Purchase. In *3rd Workshop on Mechanism Design for Social Good (MD4SG 2019)*.

Qizhen Zhang, Tengyuan Ye, **Meryem Essaidi**, Shivani Agarwal, Vincent Liu, Boon Thau Loo. Predicting Startup Crowdfunding Success through Social Engagement Analysis. In *In 26th ACM International Conference on Information and Knowledge Management (CIKM 2017)*.

Rebecca Baumher, Jeremy Bierema, **Meryem Essaidi**, and Scott Buchanan. Minimizing Bias in Residency Matching: A Study in Non-Standard Random Walks. *Senior Thesis 2016*.

WORK EXPERIENCE

University of Pennsylvania, Philadelphia

May 2016 - May 2017

Research Assistant, advised by Boon Thau Loo

Google, New York City

May 2015 - August 2015

SWE Intern in the Superroot Team

Google, Mountain View

May 2014 - August 2014

Engineering Practicum Intern in the Local Search Team

INVITED TALKS AND PRESENTATIONS

Credible, Strategyproof, Optimal, and Bounded Expected-Round Single-Item Auctions for All Distributions

Innovations in Theoretical Computer Science Conference

2022

Berkeley Equity and Access in Algorithms, Mechanisms, and Optimization 2022

On Symmetries and Fairness in Multi-Dimensional Mechanism Design

ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization 2021

Inequality Reading Group, Mechanism Design for Social Good 2021

International Conference on Web and Internet Economics, Lightning Talks 2020

When to Limit Market Entry under Mandatory Purchase

Workshop on Mechanism Design for Social Good 2019

Healthcare Reading Group, Mechanism Design for Social Good 2018

TEACHING EXPERIENCE

Princeton University, Teaching Assistant

Advanced Algorithm Design (COS 521) Fall'19

Economics and Computation (COS 445) Spring'19, Spring'20, Spring'21

University of Pennsylvania, Teaching Assistant

Software Engineering (CIS 350) Spring'16

Automata, Complexity, and Computability (CIS 262) Spring'15, Fall'15, Fall'16

Intro to Computer Systems (CIS 240) Fall'14

Math Foundation of CS (CIS 160) Fall'13, Spring'14

PROFESSIONAL AND DEPARTMENT SERVICE

Program Committee

ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization 2021, 2022

4th Workshop on Mechanism Design for Social Good 2020

Conference Reviewer

International Conference on Web and Internet Economics 2018, 2019, 2020, 2021

Innovations in Theoretical Computer Science Conference 2019

Annual European Symposium on Algorithms 2019

Organizer

Princeton Research Inclusion Social Event (RISE) 2020-present
(RISE is a group of faculty, postdocs, and grad students that meet every month to have proactive discussions on diversity and inclusion issues in Computer Science.)

OTHER SKILLS AND EXPERTISE

Programming Languages Java, Python, C, OCaml, Unix
Languages Arabic, French, English, Spanish