# 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 fur 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 Mechnanism 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

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