

Saba Ahmadi

Toyota Technological Institute at Chicago
6045 South Kenwood Ave
Chicago, IL 60637

saba@ttic.edu
<https://sabaahmadi.github.io>

- EMPLOYMENT ◇ **Toyota Technological Institute at Chicago** Sep 2021 - Present
 Postdoctoral Researcher hosted by Avrim Blum
- EDUCATION ◇ **Ph.D. in Computer Science** 2018 - 2021
 Department of Computer Science, University of Maryland, College Park, MD
 Advisor: Samir Khuller
 Thesis Title: Social Aspects of Algorithms: Fairness, Diversity, and Resilience to Strategic Behavior
- ◇ **M.Sc. in Computer Science** 2015 - 2018
 Department of Computer Science, University of Maryland, College Park, MD
 Advisor: Samir Khuller
- ◇ **B.Sc. in Software Engineering** 2010 - 2015
 University of Tehran, Tehran, Iran
- RESEARCH ◇ Social Aspects of Algorithms, Learning Theory, Combinatorial Optimization, Algorithmic Fairness
INTERESTS
- HONORS AND ◇ **Dean's Fellowship**, University of Maryland, 2015.
AWARDS
- ◇ **Year of Data Science Fellowship Award**, University of Maryland, 2018.
- CONFERENCE ◇ **The Strategic Perceptron**
PAPERS with Hedyeh Beyhaghi, Avrim Blum, Keziah Naggita
 Conference on Economics and Computation (EC 2021)
 Also presented at "Learning and Decision-Making with Strategic Feedback" and "Learning in Presence of Strategic Behavior" Workshops at NeurIPS 2021
- ◇ **An Algorithm for Multi-Attribute Diverse Matching**
 with Faez Ahmed, John P. Dickerson, Mark Fuge, Samir Khuller
 International Joint Conference on Artificial Intelligence, (IJCAI 2020)
 Also presented at Negative Dependence and Submodularity in Machine Learning Workshop at ICML 2020.
- ◇ **Min-max Correlation Clustering via Multicut**
 with Samir Khuller, Barna Saha
 International Conference on Integer Programming and Combinatorial Optimization (IPCO 2019)
- ◇ **On Scheduling Coflows**
 with Samir Khuller, Manish Purohit, Sheng Yang
 International Conference on Integer Programming and Combinatorial Optimization (IPCO 2017)

- JOURNAL PAPERS ♦ **On Scheduling Coflows**
with Samir Khuller, Manish Purohit, Sheng Yang (Algorithmica 2020)
- WORKING PAPERS ♦ **On classification of strategic agents who can both game and improve**
with Hedyeh Beyhaghi, Avrim Blum, Keziah Naggita
Presented at "Learning and Decision-Making with Strategic Feedback" and "Learning in Presence of Strategic Behavior" Workshops at NeurIPS 2021
- ♦ **Fair Correlation Clustering**
with Sainyam Galhotra, Barna Saha, Roy Schwartz
- ♦ **The Landscape of Precision Cancer Combination Therapy: A Single-Cell Perspective**
Saba Ahmadi, Pattara Sukprasert, Rahulshimham Vegesna, Sanju Sinha, Fiorella Schischlik, Natalie Artzi, Samir Khuller, Alejandro A. Schaffer, Eytan Ruppin
- WORK AND TEACHING EXPERIENCES ♦ **Pre-doc Scholar, Northwestern University, Fall 2019 - Spring 2020, and Fall 2020 - Spring 2021**
Host: Samir Khuller
- ♦ **Research Intern, Toyota Technological Institute, Summer 2020**
Host: Avrim Blum
- ♦ **Research Intern, Oath Inc., Summer 2018**
Host: Niklas Karlsson
- ♦ **Research Intern, University of Massachusetts Amherst, Fall 2017**
Host: Barna Saha
- ♦ **Teaching Assistant, University of Maryland, 2015-2020**
- PROFESSIONAL SERVICES ♦ **Reviewer or subreviewer**
- Symposium on Foundations of Computer Science (FOCS)
 - Association for the Advancement of Artificial Intelligence (AAAI)
 - Association for the Advancement of Artificial Intelligence (AAAI) - Special Track on Social Impact (AISI)
 - Symposium on Discrete Algorithms (SODA)
 - International Conference on Approximation Algorithms for Combinatorial Optimization Problems (APPROX)
 - International Colloquium on Automata, Languages, and Programming (ICALP)
 - Symposium on Parallelism in Algorithms and Architectures (SPAA)
 - Algorithms and Data Structures Symposium (WADS)
 - IEEE/ACM Transactions on Networking (TON)