

Arman Adibi

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Academic Appointments

Computer Science Department, Augusta University

Assistant Professor (Tenure Track)

Aug2025-Now

Department of ECE, Princeton University

Postdoctoral Research Associate

Sep2023-July2025

- Advisor: Prof. S. Kulkarni and Prof. H. V. Poor

Department of ESE, University of Pennsylvania

Research Assistant

Sep2018-Aug2023

- Advisor: Prof. Hamed Hassani

Education

2018–2023: University of Pennsylvania

Ph.D. Electrical & Systems Engineering, Advisor: Prof. Hamed Hassani

Thesis: Discrete and Continuous Optimization for Collaborative and Multi-task Learning

Thesis Committee: Prof. Sanjay Shakkottai, Prof. George J. Pappas, and Prof. Amin Karbasi

2013–2018: Isfahan University of Technology

B.Sc. Electrical Engineering (Telecommunications System with a minor in mathematics)

Research Interests

- Change Detection in Time Series
- Reinforcement Learning
- Minimax Optimization
- Diffusion Models
- Federated Learning
- Decision Making Under Uncertainty
- Information Theory
- Robust Machine Learning

Publications

Metrics (Google Scholar, as of October 2025): Total citations: 112; h-index: 6; i10-index: 6.

Journal Articles.....

- (**Hypothesis Testing, Quickest Change Detection**) **Adibi, A.**, Kulkarni, S., Poor, H. V., Banerjee T., & Tarokh, V. " Asymptotically Optimal Change Detection for Unnormalized Pre- and Post-Change Distributions " Sequential Analysis, 2025.
- (**Non-convex Optimization, Minimax Optimization**) Naghsh, M. M., Masjedi, M., **Adibi, A.**, & Stoica, P., " Max-Min Fairness Design in MIMO Interference Channels: A Minorization-Maximization Approach" IEEE Transactions on Signal Processing (**TSP**), 2019.

Conference Proceedings.....

- (**Reinforcement Learning, Federated Learning**) **Adibi, A.**, Dal Fabbro, N., Schenato, L., Kulkarni, S., Poor, H. V., Pappas, G. J., Hassani, H., & Mitra, A. " Stochastic Approximation with Delayed Updates: Finite-Time Rates under Markovian Sampling " International Conference on

Artificial Intelligence and Statistics ([AISTATS](#)), 2024.

- ([Reinforcement Learning, Federated Learning](#)) **Adibi, A.**, Dal Fabbro, N., Kulkarni, S., Poor, H. V., Pappas, G. J., & Mitra, A. "DASA: Delay-Adaptive Multi-Agent Stochastic Approximation " IEEE Conference on Decision and Control ([CDC](#)), 2024.
- ([Reinforcement Learning, Federated Learning](#)) Dal Fabbro, N., **Adibi, A.**, Mitra, A., & Pappas, G. J., " Finite-Time Analysis of Asynchronous Multi-Agent TD Learning " American Control Conference ([ACC](#)), 2024.
- ([Deep Learning, Adversarial Robustness](#)) Lei, E., **Adibi, A.**, & Hassani, H., " Score-Based Methods for Discrete Optimization in Deep Learning " Submitted to IEEE International Conference on Acoustics, Speech, and Signal Processing ([ICASSP](#)), 2024.
- ([Minimax Optimization, Distributed Learning](#)) **Adibi, A.**, Mitra, A., & Hassani, H., " Min-Max Optimization under Delays " American Control Conference ([ACC](#)), 2024.
- ([Decision Making under Uncertainty, Federated Learning](#)) **Adibi, A.**, Mitra, A., Pappas, G. J., & Hassani, H., " Collaborative Linear Bandits with Adversarial Agents: Near-Optimal Regret Bounds " Advances in Neural Information Processing Systems([NeurIPS](#)), 2022.
- ([Adversarial Robustness, Distributed Learning](#)) **Adibi, A.**, Mitra, A., Pappas, G. J., & Hassani, H., " Distributed Statistical Min-Max Learning in the Presence of Byzantine Agents " IEEE Conference on Decision and Control ([CDC](#)), 2022.
- ([Adversarial Robustness, Submodular Optimization](#)) **Adibi, A.**, Mokhtari, A., & Hassani, H., " Minimax Optimization: The Case of Convex-Submodular" International Conference on Artificial Intelligence and Statistics ([AISTATS](#)), 2022 .
Spotlight in "Subset Selection in Machine Learning" Workshop, ICML 2021 .
Oral presentation in AISTATS 2022 (top 2% of submitted papers).
- ([Distributed Learning, Submodular Optimization](#)) Robey, A., **Adibi, A.**, Schlotfeldt, B., Hassani, H., & Pappas, G. J., " Optimal Algorithms for Submodular Maximization with Distributed Constraints" Learning for Dynamics and Control ([L4DC](#)), 2021 .
- ([Distributed Learning, Submodular Optimization](#)) **Adibi, A.**, Mokhtari, A., & Hassani, H., " Submodular Meta-Learning " Advances in Neural Information Processing Systems([NeurIPS](#)), 2020.

Honors & Awards

2018: Lilian Beck Fellowship & The Dean's Fellowship from the University of Pennsylvania

2017: Third Prize in International Mathematics Competition (IMC) for University Students

Teaching Experience

CS Department, Augusta University

Lecturer

Data Science Programming 2

Spring 2026

ESE Department, University of Pennsylvania

Teaching Assistant, Prof. George J. Pappas

Linear System Theory

Fall 2020

ESE Department, University of Pennsylvania

Teaching Assistant, Prof. Santosh S. Venkatesh

Probability Theory

Fall 2019

Math Department, Isfahan University of Technology

Teaching Assistant, Prof. Javadi

Applied Linear Algebra

Spring 2017

Math Department, Isfahan University of Technology
Teaching Assistant, Prof. Bahrami

Foundations Of Mathematics
Fall 2017

Math Department, Isfahan University of Technology
Teaching Assistant, Prof. Gazor

Mathematical Analysis
Fall 2016

ECE Department, Isfahan University of Technology
Teaching Assistant, Prof. Khosravifard

Signals and Systems
Fall 2015

Service

-Roles:.....

- Steering Committee at Workshop on Artificial Intelligence in Research and Education (AIRE), 2025
- Program Chair at Neural Information Processing System (NeurIPS) MusIML Workshop, 2024
- Session Chair at Annual Conference on Information Sciences and Systems (CISS), 2024

-Mentorship:.....

- Mohammadreza Maleki, PhD at Toronto Metropolitan University, 2025-Now
- Mashhad Moradi, Independent Researcher, 2025-Now
- Rushendra Sidibomma, Intern at Toronto Metropolitan University, 2025
- Eric Lei, PhD at University of Pennsylvania, 2022-2024
- Zijie Qiu, Msc at UIUC, 2024-2025
- Jun Wang, Independent Researcher, 2024-2025

-Reviewer for:.....

- Sequential Analysis
- IEEE Transactions on Information Theory
- IEEE Transactions on Automatic Control Journal (TAC)
- International Conference on Machine Learning(ICML)
Top reviewer for ICML 2021, and 2022.
- International Conference on Learning Representations (ICLR)
Top reviewer for ICLR 2022 and 2023.
- Conference on Neural Information Processing Systems (NeurIPS)
Top reviewer for NeurIPS 2021.
- International Conference on Artificial Intelligence and Statistics (AISTATS)
Top reviewer for AISTATS 2022, 2023, and 2024.
- IEEE International Symposium on Information Theory (ISIT)
- IEEE Conference on Decision and Control (CDC)
- Learning for Dynamics and Control (L4DC)
- IEEE American Control Conference (ACC)

Skills

Programming: C++/C, PYTHON, TENSORFLOW, PYTORCH, MATLAB, VERILOG

Typesetting: L^AT_EX, Microsoft Office

Soft Skills: Problem-solving, Communication Skills, Conflict Resolution, Project Management

References

Hamed Hassani

Professor, Department of Electrical and System Engineering, Statistics, and Computer Science, University of Pennsylvania.

Email: hassani@seas.upenn.edu

Sanjeev Kulkarni

William R. Kenan, Jr. Professor, Department of Operations Research and Financial Engineering, Electrical and Computer Engineering, and Philosophy, Princeton University.

Email: kulkarni@princeton.edu

H. Vincent Poor

Michael Henry Strater University Professor, Department of Operations Research and Financial Engineering, Electrical and Computer Engineering, and Applied Mathematics, Princeton University.

Email: poor@princeton.edu

Vahid Tarokh

Rhodes Family Distinguished Professor, Department of Mathematics, Electrical and Computer Engineering, and Computer Science, Duke University.

Email: vahid.tarokh@duke.edu