

Arman Adibi

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Academic Appointments

Computer Science Department, Augusta University

Assistant Professor (*Tenure Track*)

Aug 2025–Now

Department of ECE, Princeton University

Postdoctoral Research Associate

Sep 2023–July 2025

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

Department of ESE, University of Pennsylvania

Research Assistant

Sep 2018–Aug 2023

- 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	Data Science Programming 2
<i>Lecturer</i>	<i>Spring 2026</i>
ESE Department, University of Pennsylvania	Linear System Theory
<i>Teaching Assistant, Prof. George J. Pappas</i>	<i>Fall 2020</i>
ESE Department, University of Pennsylvania	Probability Theory
<i>Teaching Assistant, Prof. Santosh S. Venkatesh</i>	<i>Fall 2019</i>
Math Department, Isfahan University of Technology	Applied Linear Algebra
<i>Teaching Assistant, Prof. Javadi</i>	<i>Spring 2017</i>

Math Department, Isfahan University of Technology <i>Teaching Assistant, Prof. Bahrami</i>	Foundations Of Mathematics <i>Fall 2017</i>
Math Department, Isfahan University of Technology <i>Teaching Assistant, Prof. Gazor</i>	Mathematical Analysis <i>Fall 2016</i>
ECE Department, Isfahan University of Technology <i>Teaching Assistant, Prof. Khosravifard</i>	Signals and Systems <i>Fall 2015</i>

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