# ABOLFAZL HASHEMI

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### CURRENT POSITION

### Assistant Professor

Purdue University August 2021 – present

Elmore Family School of Electrical and Computer Engineering

- Director of Machine Intelligence and Networked Data Science Group (MINDS)
- Primary member of Communications, Networking, Signal and Image Processing (CNSIP)
- Member of Computer Engineering (Artificial Intelligence)

## RESEARCH DESCRIPTION

The goal of my research is to advance the field of Large-Scale Optimization. My group provides actionable insights from the perspective of this foundational field to innovate multiple domains including Machine Learning, Deep Learning, Online Learning, Learning in Games, and Networked/Distributed Decision-Making. In doing so, our group designs efficient algorithms with mathematical guarantees to render practical deployment of learning-based systems possible under a variety of considerations such as limited resources, robustness, and adversarial behaviors. Recent applications include Federated Learning, Medical Image Analysis, NextG Manufacturing, and Cyber-Physical Systems.

### **EDUCATION**

<b>Doctor of Philosophy (Ph.D.)</b> , Electrical and Computer Engineering University of Texas at Austin, Austin, Texas, USA	2016 - 2020
Master of Science in Engineering (M.S.E.), Electrical and Computer Engineering University of Texas at Austin, Austin, Texas, USA	2014 - 2016
Bachelor of Science (B.S.), Electrical Engineering Sharif University of Technology, Tehran, Iran	2010 - 2014

### EVIOUS POSITIONS

REVIOUS POSITIONS	
Postdoctoral Fellow	
University of Texas at Austin	2020-2021
Oden Institute for Computational Engineering and Sciences	
Advisors: Prof. Rachel Ward, Prof. Inderjit Dhillon, Prof. Ufuk Topcu	
Graduate Research and Teaching Assistant	
University of Toyog at Austin	2014 2020

University of Texas at Austin 2014 - 2020Department of Electrical and Computer Engineering

Advisor: Prof. Haris Vikalo

Data Scientist Intern

Cognitive Scale, Austin, Texas Summer 2017

Undergraduate Research Intern

Hong Kong University of Science and Technology Summer 2013

Department of Electrical and Computer Engineering

Host: Prof. Daniel Palomar

# Undergraduate Research and Teaching Assistant

Sharif University of Technology Department of Electrical Engineering 2012 - 2014

### INVITED PRESENTATIONS

- 1. Global Update Tracking: A Decentralized Learning Algorithm for Heterogeneous Data, *Information Theory and Applications Workshop*, Feb. 2024.
- 2. On The Robustness of Learning-Enabled Networked System: A Modern Optimization Perspective, *International Federation for Information Processing (IFIP) Winter Meeting*, Feb. 2024
- 3. No-Regret Learning in Dynamic Stackelberg Games, Multi-Agent Dynamic Games workshop at International Conference on Intelligent Robots and Systems (IROS), Oct. 2023.
- 4. Theory-guided Methods for Private Federated Learning, SIAM Conference on Computational Science and Engineering, March 2023.
- 5. No-Regret Learning in Dynamic Stackelberg Games, Information Theory and Applications Workshop, Feb. 2023.
- 6. Generalization Bounds for Sparse Random Feature Expansions, SIAM Conference on Mathematics and Data Science (MDS), September 2022.
- 7. Faster Non-Convex Federated Learning via Global and Local Momentum, 2022 NSF TRIPODS PI Meeting, September 2022.
- 8. On the Convergence of Differentially Private Federated Learning on Non-Lipschitz Objectives via Clipping and Normalized Client Updates, Federated Learning One World Seminar, April 2022.
- 9. AI at Scale: Robustness and Security in Adversarial Environments, The Center for Education and Research in Information Assurance and Security (CERIAS), Purdue University, Oct. 2021.
- 10. Structured and Resource-Constrained Collaborative Learning, Center for Innovation in Control, Optimization, and Networks (ICON), Purdue University, Sep. 2021.
- 11. Structured and Resource-Constrained Collaborative Learning, Department of Computer Science, Purdue University, Sep. 2021.
- 12. Weak Submodular Optimization: Theory, Algorithm, Application, Department of Computer Science at UIUC, Feb. 2020.
- 13. Progressive Stochastic Greedy Sparse Reconstruction and Support Selection, 15th CSL student conference at UIUC, Feb. 2020.
- 14. Tutorial on Submodular Maximization, The Oden Institute for Computational Engineering and Sciences at UT Austin, Nov. 2019.
- 15. Tutorial on Submodular Minimization, The Oden Institute for Computational Engineering and Sciences at UT Austin, Oct. 2019.
- 16. Sparse Tensor Decomposition for Haplotype Assembly of Diploids and Polyploids, 12th CSL student conference at UIUC, Feb. 2017.

### **PUBLICATIONS**

#### **Preprints**

- 1. Aketi, A., Hashemi, A., Roy, K., "AdaGossip: Adaptive Consensus Step-size for Decentralized Deep Learning with Communication Compression."
- 2. Lan, J., Han, D., Hashemi, A., Aggarwal, V., Brinton, C. "Asynchronous Federated Reinforcement Learning with Policy Gradient Updates: Algorithm Design and Convergence Analysis."

- 3. Memarian, F., Hashemi, A., Niekum, S., Topcu, U., "On the Benefits of Inducing Local Lipschitzness for Robust Generative Adversarial Imitation Learning."
- 4. Chellapandi, V., Upadhyay, A., Hashemi, A., Żak, S., "Decentralized Federated Learning: Model Update Tracking Under Imperfect Information Sharing."
- 5. Kaya, E., Hibbard, M., Tanaka, T., Topcu, U., Hashemi, A., "Randomized Greedy Methods for Weak Submodular Sensor Selection with Robustness Considerations."
- 6. Kaya, E. and Hashemi, A., "Localized Distributional Robustness in Submodular Multi-Task Subset Selection."

### **Journal Papers**

- 1. Chen, Y., Hashemi, A., Vikalo, H., "Accelerated Distributed Stochastic Non-Convex Optimization over Time-Varying Directed Networks," IEEE Transactions on Automatic Control, 2024.
- 2. Lauffer, N., Ghasemi, M., Hashemi, A., Savas, Y., Topcu, U., "No-Regret Learning in Dynamic Stackelberg Games," IEEE Transactions on Automatic Control, 2023.
- 3. Chellapandi, V., Upadhyay, A., Hashemi, A., Zak, S., "On the Convergence of Decentralized Federated Learning Under Imperfect Information Sharing," IEEE Control Systems Letters, 2023.
- 4. Upadhyay, A., Hashemi, A., "Improved Convergence Analysis and SNR Control Strategies for Federated Learning in the Presence of Noise," **IEEE Access**, 2023.
- 5. Kaya, E.\*, Sahin, M.\*, Hashemi, A., "Communication-Efficient Zeroth-Order Distributed Online Optimization: Algorithm, Theory, and Applications," **IEEE Access**, 2023.
- 6. Hashemi\*, A., Schaeffer\*, H., Shi\*, B., Tran\*, G., Ward\*, R., "Generalization Bounds for Sparse Random Feature Expansions," Applied and Computational Harmonic Analysis, 2022.
- 7. Hashemi, A., Vikalo, H., de Veciana, G., "On the Benefits of Progressively Increasing Sampling Sizes in Stochastic Greedy Weak Submodular Maximization," IEEE Transactions on Signal Processing, 2022.
- 8. Hashemi, A., Shafipour, R., Vikalo, H., Mateos, G., "Towards Accelerated Greedy Sampling and Reconstruction of Bandlimited Graph Signals," Signal Processing, 2022.
- 9. Chen, Y., Hashemi, A., Vikalo, H., "Communication-Efficient Variance-Reduced Decentralized Stochastic Optimization over Time-Varying Directed Graphs," IEEE Transactions on Automatic Control, 2022.
- 10. Hashemi, A., Acharya\*, A., Das\*, R., Vikalo, H., Sanghavi, S., Dhillon, I., "On the Benefits of Multiple Gossip Steps in Communication-Constrained Decentralized Federated Learning," **IEEE Transactions on Parallel and Distributed Systems, Special Section on Parallel and Distributed Computing Techniques for AI, ML, and DL**, 2021.
- 11. Hashemi, A., Ghasemi, M., Vikalo, H., Topcu, U., "Randomized Greedy Sensor Selection: Leveraging Weak Submodularity," IEEE Transactions on Automatic Control, Jan. 2021.
- 12. Hashemi, A. and Vikalo, H., "Evolutionary Self-Expressive Models for Subspace Clustering," **IEEE Journal of Selected Topics in Signal Processing, Special Issue on Data Science: Robust Subspace Learning and Tracking,** vol. 12, no. 6, pp. 1534–1546, Dec. 2018.
- 13. Hashemi, A. and Vikalo, H., "Accelerated Orthogonal Least-Squares for Large-Scale Sparse Reconstruction," Digital Signal Processing, vol. 82, pp. 91–105, Nov. 2018.
- 14. Hashemi, A., Zhu, B., Vikalo, H., "Sparse Tensor Decomposition for Haplotype Assembly of Diploids and Polyploids," BMC Genomics, vol. 19, no. 4, pp. 1–15, Mar. 2018.

## Conference Papers

1. Luo, Z., Hashemi, A., "Unveiling the Cycloid Trajectory of EM Iterations in Mixed Linear Regression," International Conference on Machine Learning (ICML), 2024.

- 2. Ravikumar, D., Soufleri, E., Hashemi, A., Roy, K. "Unveiling Privacy, Memorization, and Input Curvature Links," International Conference on Machine Learning (ICML), 2024.
- 3. Moon, S., Hashemi, A., "Optimistic Regret Bounds for Online Learning in Adversarial Markov Decision Processes," Conference on Uncertainty in Artificial Intelligence (UAI), 2024.
- 4. Sahin, M.\*, Yalcinkaya, D.\*, Hashemi, A., Dharmakumar, R., Sharif, B., "Retrospective k-Space Synthesis for Cardiac MRI Deep-learning Applications from Magnitude-only Images Using Score based Diffusion Models," 32nd Annual Meeting of ISMRM, 2024.
- 5. Sahin, M.\*, Yalcinkaya, D.\*, Hashemi, A., Dharmakumar, R., Sharif, B., "Retrospective Phase-map Synthesis for CMR datasets from Magnitude-only DICOM Images Enabled by AI Generative Models to Create Large Training Datasets for Deep Learning-based Image Reconstruction," 27th Annual Scientific Sessions of SCMR, 2024.
- 6. Aketi, A., Hashemi, A., Roy, K., "Global Update Tracking: A Decentralized Learning Algorithm for Heterogeneous Data," Conference on Neural Information Processing Systems (NeurIPS), 2023.
- 7. Kaya, E., Hashemi, A., "Relative Entropy Regularization for Robust Submodular Multi-Task Subset Selection," Allerton Conference on Communication, Control, and Computing, 2023.
- 8. Ramishetty, S., Hashemi, A., "High Probability Guarantees for Federated Learning," Allerton Conference on Communication, Control, and Computing, 2023.
- 9. Castillo, A., Kaya, E., Hashemi, A., "High Probability Guarantees for Submodular Maximization via Boosted Stochastic Greedy," 57th Asilomar Conference on Signals, Systems, and Computers, 2023.
- 10. Hashemi, A., A. Upadhyay, "Predictive Estimation for Reinforcement Learning with Time-Varying Reward Functions," 57th Asilomar Conference on Signals, Systems, and Computers, 2023.
- 11. Upadhyay, A., Hashemi, A., "Noisy Communication of Information in Federated Learning: An Improved Convergence Analysis," 57th Asilomar Conference on Signals, Systems, and Computers, 2023.
- 12. Kaya\*, E., Sahin\*, M., Hashemi, A., "Communication-Constrained Exchange of Zeroth-Order Information with Application to Collaborative Target Tracking," International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2023.
- 13. Chen, Y., Hashemi, A., Vikalo, H., "Accelerated Decentralized Stochastic Non-Convex Optimization over Directed Networks," International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2023.
- 14. Yalcinkaya, D., Benan Unal, H., Raman, S., Hashemi, A., Dharmakumar, R., Sharif, B., "Data-adapted Neural Network Denoisers as a Regularization Engine for Low-latency Image Reconstruction in Accelerated Cardiac Perfusion MRI," 31st Annual Meeting of ISMRM, 2023.
- 15. Hibbard, M., Hashemi, A., Tanaka, T., Topcu, U., "Randomized Greedy Algorithms for Sensor Selection in Large-Scale Satellite Constellations," American Control Conference (ACC), 2023.
- 16. Das, R., Hashemi, A., Sanghavi, S., Dhillon, I., "DP-NormFedAvg: Normalizing Client Updates for Privacy-Preserving Federated Learning," 14th International Workshop on Optimization for Machine Learning at NeurIPS, 2022.
- 17. Das, R., Hashemi\*, A., Acharya\*, A., Sanghavi, S., Dhillon, I., Topcu, U., "Faster Non-Convex Federated Learning via Global and Local Momentum," Conference on Uncertainty in Artificial Intelligence (UAI), 2022.
- 18. Acharya, A., Hashemi, A., Jain, P., Sanghavi, S., Dhillon, I., Topcu, U., "Robust SGD via Block coordinate Geometric Median Descent," International Conference on Artificial Intelligence and Statistics (AISTATS), 2022.

- 19. Ghasemi\*, M., Hashemi\*, A., Vikalo, H., Topcu, U., "No-Regret Learning with High-Probability in Adversarial Markov Decision Processes," Conference on Uncertainty in Artificial Intelligence (UAI), 2021.
- 20. Ghasemi, M., Hashemi, A., Topcu, U., Vikalo, H., "Online Learning with Implicit Exploration in Episodic Markov Decision Processes," American Control Conference (ACC), 2021.
- 21. Savas, Y., Hashemi, A., Vinod, AP., Sadler, BM., Topcu, U., "Physical-Layer Security via Distributed Beam-forming in the Presence of Adversaries with Unknown Locations," International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2021.
- 22. Chen, Y., Hashemi, A., Vikalo, H., "Decentralized Optimization on Time-Varying Directed Graphs under Communication Constraints," International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2021.
- 23. Hashemi, A., Vikalo, H., de Veciana, G., "On the Performance-Complexity Tradeoff in Stochastic Greedy Weak Submodular Optimization," International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2021.
- 24. Ghasemi, M., Hashemi, A., Vikalo, H., Topcu, U., "Identifying Low-Dimensional Structures in Markov Chains: A Nonnegative Matrix Factorization Approach," American Control Conference (ACC), 2020.
- 25. Ghasemi\*, M., Hashemi\*, A., Vikalo, H., Topcu, U., "On Submodularity of Quadratic Observation Selection in Constrained Networked Sensing Systems," American Control Conference (ACC), 2019.
- 26. Shafipour, R., Hashemi, A., Mateos, G., Vikalo, H., "Online Topology Inference from Streaming Stationary Graph Signals," Data Science Workshop (DSW), 2019.
- 27. Hashemi, A., Ghasemi, M., Vikalo, H., Topcu, U., "Submodular Observation Selection and Information Gathering for Quadratic Models," International Conference on Machine Learning (ICML), June 2019.
- 28. Hashemi, A. and Vikalo, H., "Evolutionary Subspace Clustering: Discovering Structure In Self-expressive Time-series Data," International Conference on Acoustic, Speech and Signal Processing, 2019.
- 29. Consul, S., Hashemi, A., Vikalo, H., "A MAP Framework for Support Recovery of Sparse Signals Using Orthogonal Least Squares," International Conference on Acoustic, Speech and Signal Processing (ICASSP), 2019.
- 30. Hashemi\*, A., Kilic\*, O.F., Vikalo, H., "Near-Optimal Distributed Estimation for a Network of Sensing Units Operating Under Communication Constraints," Conference on Decision and Control (CDC), 2018.
- 31. Hashemi, A., Shafipour, R., Vikalo, H., Mateos, G., "A Novel Scheme for Support Identification and Iterative Sampling of Bandlimited Graph Signals," Global Conference on Signal and Information Processing (GlobalSIP), 2018.
- 32. Hashemi, A., Ghasemi, M., Vikalo, H., Topcu, U., "A Randomized Greedy Algorithm for Near-Optimal Sensor Scheduling in Large-Scale Sensor Networks," American Control Conference (ACC), 2018.
- 33. Hashemi, A., Shafipour, R., Vikalo, H., Mateos, G., "Sampling and Reconstruction of Graph Signals via Weak Submodularity and Semidefinite Relaxation," International Conference on Acoustic, Speech and Signal Processing (ICASSP), 2018.
- 34. Hashemi, A., Zhu, B., Vikalo, H., "Sparse Tensor Decomposition for Haplotype Assembly of Diploids and Polyploids," International Workshop on Computational Network Biology: Modeling, Analysis, Control (CNB-MAC), 2017.
- 35. Hashemi, A. and Vikalo, H., "Sparse Recovery via Branch and Bound Least-Squares," International Conference on Acoustic, Speech and Signal Processing (ICASSP), 2017.

36. Hashemi, A. and Vikalo, H., "Sparse Linear Regression via Generalized Orthogonal Least-Squares," Global Conference on Signal and Information Processing (GlobalSIP), 2016.

### SCHOLASTIC HONORS

- Outstanding Reviewer of ICML 2020, August 2020
- 1 of 4 selected as an invited student speaker at 15th CSL conference at UIUC, Machine Learning for Signal Processing session, February 2020
- Selected as the Schmidt Science Fellows Award nominee from UT Austin, 2019
- Best student paper award finalist, American Control Conference, June 2018
- 1 of 4 selected as an invited student speaker at 12th CSL conference at UIUC, Bioinformatics and Computational Genomics session, February 2017
- Travel awards for ICML 2019, ACC 2019, ACC 2018, CNB-MAC 2017, ICASSP 2017, GlobalSIP 2016
- Inclusive Classrooms Leadership Certificate, UT Austin, February 2015
- Professional Teaching Assistant Certificate, UT Austin, August 2014
- Qualied as an Exceptional Talent eligible to enter Graduate Studies without entrance exam, Sharif University of Technology, 2013
- Ranked 79th among more than 277,000 participants in the Nationwide University Entrance Exam for B.Sc. degree, 2010
- Recipient of Iranian National Elite Foundation fellowship, 2010-2014

### TEACHING EXPERIENCE

# **Purdue University**

## Elmore Family School of Electrical and Computer Engineering

Instructor

- ECE 69500: Optimization for Deep Learning (Fall 2022, Fall 2023, Fall 2024)
- ECE 20001: Electrical Engineering Fundamental I (Fall 2021, Spring 2022, Spring 2023, Spring 2024)
- Vertically Integrated Projects (VIP): Team RoboMaster (a voluntary, outreach activity) (Fall 2022, Spring 2023, Fall 2023, Spring 2024, Fall 2024)

## University of Texas at Austin

### Department of Electrical and Computer Engineering

Graduate Teaching Assistant

• Statistical Machine Learning

Fall 2019

• Estimation Theory

Fall 2017

• Digital Signal Processing

Spring 2015

• Digital Signal Processing

Fall 2014

# Sharif University of Technology

# Department of Electrical Engineering

Undergraduate Teaching Assistant

• Digital Signal Processing

Fall 2013

• Communication Systems

Fall 2013

• Principles of Electronics	Fall 2013
• Principles of Electronics	Spring 2013
• Computer Architecture	Spring 2013
• Logic Circuits	Spring 2013
• Analog Circuits	Spring 2013
• Electromagnetism	Fall 2012

## **ADVISING**

## **Postdoctoral Scholars**

• Jonggwang Kim (Since January 2024), Co-adviser: Prof. Christopher G. Brinton

#### Ph.D. Students

- Antesh Upadhyay (since December 2021)
- Ege Kaya (since August 2022)
- Andres C Castillo (since August 2022)
- Zhankun Luo (since August 2023)
- Mehmet Berk Sahin (since August 2022), Co-adviser: Prof. Behzad Sharif
- Sang Bin Moon (since August 2022), Co-adviser: Prof. Jan-Anders Mansson
- Dilek Yalcinkaya (since August 2022), Co-adviser: Prof. Behzad Sharif

### M.Sc. Students with Thesis

• Sravani Ramishetty, (December 2021 - August 2023) Thesis: *High Probability Guarantees for Federated Learning* 

## Other Advising Roles

- Actively advising undergraduates through programs such as SURF, Summer Stay, OUR Scholars, and Purdue-Tec de Monterrey Undergraduate Research Program.
- Serving on the dissertation committee of 17 graduate students.
- Faculty advisor for Purdue RoboMaster Club

# SERVICES AT THE PURDUE UNIVERSITY

• Member of the ECE Graduate Committee	Fall 2023–present
$\bullet$ Core Member of the ECE Graduate Admissions Committee, CNSIP area	Fall 2023–present
• Member of the SME Committee for PMP students	Fall 2022 – present
$\bullet$ Member of the graduate admissions committee, CNSIP and CE areas	2021-2022
• Co-organizer of ICON and ECE Seminars	2022

### PROFESSIONAL MEMBERSHIPS AND SERVICES

### **Grant Proposal Panels**

- NSF, 2023
- USDA NIFA program, 2023 and 2024

# Conference/Workshop Organizer

- Panelist in TRIPODS Postdoc Workshop, Toyota Technological Institute at Chicago August, 2023
- EnCORE Institute Sessions on "Distributed Learning and Decision-Making" at ITA 2023

## Technical Program Committee

• Networks and Communication Systems Technical Committee IEEE Control Systems Society

October 2022 – present

### Conference Area Chair

• 41st International Conference on Machine Learning (ICML)	2024
• 27th International Conference on Artificial Intelligence and Statistics (AISTATS)	2024
• 26th International Conference on Artificial Intelligence and Statistics (AISTATS)	2023
• International Conference on Images, Signals, and Computing (ICISC)	2023
• International Workshop on Signal Processing Advances in Wireless Communications (SPAWC)	2020
• International Multi-Conference on Computing in the Global Information Technology	2019
• International Conference on Mobile, Hybrid, and Online Learning	2019
• International Conference on Advanced Engineering Computing and Applications in Sciences	2018
• International Multi-Conference on Computing in the Global Information Technology	2018

# **Professional Society Memberships**

- Institute of Electrical and Electronics Engineers (IEEE), Signal Processing Society 2016 present
- Society for Industrial and Applied Mathematics (SIAM)

# 2016 - present

# Journal Reviews

- IEEE Control Systems Letters
- IEEE Signal Processing Magazine
- IEEE Transactions on Signal Processing
- IEEE Signal Processing Letters
- IEEE Transactions on Signal and Information Processing over Networks
- Elsevier Signal Processing
- IET Signal Processing
- IEEE Transactions on Robotics
- IEEE Transactions on Control of Networked Systems
- IEEE Transactions on Automatic Control
- Automatica
- IEEE Transactions on Wireless Communications
- IEEE Transactions on Communications
- IEEE Transactions on Cybernetics
- IEEE Journal of Selected Areas in Information Theory
- IEEE Access

- Information Sciences
- SIAM Journal on Scientific Computing
- Nature Scientific Reports
- PLOS One
- Taylor and Francis Journal on Forensic Sciences Research

#### Conference Reviews

• International Conference on Acoustics, Speech and Signal Processing (ICASSP)	2023
• International Conference on Artificial Intelligence and Statistics (AISTATS)	2021, 2024
• International Conference on Machine Learning (ICML)	2020,2021,2022,2023
• Conference on Neural Information Processing Systems (NeurIPS)	2020, 2022
• American Control Conference (ACC)	2020,2021,2022
• International Symposium on Information Theory (ISIT)	2020,2023
• International Workshop on Signal Processing Advances in Wireless Communication	ions (SPAWC) 2020
• Conference on Decision and Control (CDC)	2018, 2023
• International Conference on Image Processing (ICIP)	2022, 2023

### **SHORT BIO**

Abolfazl Hashemi received the B.Sc. degree in Electrical Engineering from the Sharif University of Technology, Iran, in July 2014, and the M.S.E. and Ph.D. degrees in Electrical and Computer Engineering from the University of Texas at Austin, USA, in May 2016 and August 2020, respectively. From August 2020 to August 2021 he was a Postdoctoral Scholar at the Oden Institute for Computational Engineering and Sciences at the University of Texas at Austin. Since August 2021, he has been an Assistant Professor at the Elmore Family School of Electrical and Computer Engineering at Purdue University. Abolfazl was the 2019 Schmidt Science Fellows Award nominee from UT Austin, the recipient of the Iranian National Elite Foundation Fellowship, and a Best Student Paper Award finalist at the 2018 American Control Conference. His research interests include optimization for machine learning, signal processing, and control.

Last Update: 30th May, 2024