Ethan "Ehsan" Lari

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Homepage

Profile

○ Research assistant specialized in statistical machine learning and signal processing at NTNU
○ Over 5 years of research experience in the development of statistical machine learning algorithms
○ Research experience in statistical machine learning and signal processing projects
○ Several PhD project deliverables in high-quality venues including ICASSP and EUSIPCO
○ Strong academic background in mathematics, statistics, linear algebra, and optimization
○ Curious learner looking forward to making meaningful contributions in tackling fresh challenges

Professional Experience

Research and Teaching Assistant — Department of Electronic Systems **Trondheim, Norway**
Norwegian University of Science and Technology (NTNU) *Jan. 2020 -– Dec. 2024*

○ Conducted research on efficiency, privacy, and security of machine learning algorithms.
○ Delivered teaching assistance in machine learning courses.

Assistant Professor — Department of Electronic Systems **Trondheim, Norway**
Norwegian University of Science and Technology (NTNU) *Aug. 2022 -– Dec. 2022*

○ Course lecturer for Design of Integrated Circuits (TFE4152).
○ Guided graduate students to successfully complete their course projects.

Education

Doctor of Philosophy (PhD) — Signal Processing **Trondheim, Norway**
Norwegian University of Science and Technology (NTNU) *Jan. 2020 -– Mar. 2024*
Department of Electronic Systems (IES)

Master of Science (MSc) — Electrical Engineering **Tehran, Iran**
Amirkabir University of Technology (Tehran Polytechnic), GPA: 3.91/4 *Sep. 2016 -– Dec. 2018*

PhD Project

Title: *Distributed Learning with Enhanced Efficiency, Robustness and Privacy*

Supervisors: Prof. Stefan Werner (NTNU, Norway), Dr. Reza Arablouei (CSIRO, Australia)

Skills

Programming Languages: Python [Scikit-Learn, PyTorch (beginner)], SQL (beginner), HTML

Engineering Softwares: MATLAB, Microsoft Office

Operating Systems: Windows, Linux

Soft Skills: Problem Solving, Critical Thinking, Communication, Teamwork, Adaptability, Time Management, Leadership

PhD Project Deliverables (Publications)

Journals

○ E. Lari, R. Arablouei, V. C. Gogineni, S. Werner, "Noise-Robust and Resource-Efficient ADMM-based Federated Learning", submitted to IEEE Open Journal of Signal Processing.

○ E. Lari, R. Arablouei, V. C. Gogineni, S. Werner, "Resilience in Online Federated Learning: Mitigating Model-Poisoning Attacks via Partial Sharing", submitted to IEEE Transactions on Signal and Information Processing over Networks.

Conferences

○ E. Lari, R. Arablouei, and S. Werner, "Privacy-Preserving Distributed Nonnegative Matrix Factorization," in Proc. IEEE EUSIPCO 2024, Lyon, France, Aug. 2024.

○ E. Lari, R. Arablouei, N. K. D. Venkategowda, and S. Werner, "Distributed Maximum Consensus over Noisy Links," in Proc. IEEE EUSIPCO 2024, Lyon, France, Aug. 2024.

○ E. Lari, V. C. Gogineni, R. Arablouei, and S. Werner, "On the Resilience of Online Federated Learning to Model Poisoning Attacks through Partial Sharing," in Proc. IEEE ICASSP, Seoul, South Korea, Apr. 2024.

○ E. Lari, V. C. Gogineni, R. Arablouei, and S. Werner, "Continual Local Updates for Federated Learning with Enhanced Robustness to Link Noise," in Proc. IEEE APSIPA, Taipei, Taiwan, Nov. 2023.

○ E. Lari, V. C. Gogineni, R. Arablouei, and S. Werner, "Resource-Efficient Federated Learning Robust to Communication Errors," in Proc. IEEE SSP Workshop, Hanoi, Vietnam, July 2023.

Languages

Persian: Native proficiency

English: Full professional proficiency

Norwegian, Bokmål: Limited working proficiency

Honors and awards

Offer for Assistant Professor Position	**Department of Electronic Systems (IES)**
NTNU	*Fall 2022*
Accepted for PhD Program	**Department of Electronic Systems (IES)**
NTNU	*Fall 2019*
McGill Engineering International Tuition Award (MEITA)	**ECE Department**
McGill university	*Fall 2019*
Accepted for PhD Program	**ECE Department**
McGill university	*Fall 2019*

Interests and Hobbies

○ Hiking and Camping
○ Planning Events

References

Can be provided upon request