

# Ehsan Lari — Curriculum Vitae

Trondheim – Norway

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## Highlights

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- PhD specialized in statistical machine learning and signal processing from NTNU Trondheim
- 4+ years research experience in the development of statistical learning algorithms
- Teaching experience in statistical machine learning courses
- Research experience in distributed statistical machine learning algorithms
- Several publications 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 Positions

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### Assistant Professor

*Department of Electronic Systems*

Norwegian University of Science and Technology (NTNU)

Trondheim, Norway

Fall 2022

## Education

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### Norwegian University of Science and Technology (NTNU)

*Ph.D. in Electrical Engineering*

Department of Electronic Systems (IES)

Trondheim, Norway

Spring 2020–Spring 2024

### Amirkabir University of Technology (Tehran Polytechnic)

*M.Sc. in Electrical Engineering, GPA: 3.91/4*

Telecommunications and Signal Processing Group

Tehran, Iran

Fall 2016–Fall 2018

### Amirkabir University of Technology (Tehran Polytechnic)

*B.Sc. in Electrical Engineering, Dual degree, GPA: 3.92/4*

Telecommunications and Signal Processing Group

Tehran, Iran

Fall 2012–Fall 2016

## PhD Project

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

**Supervisors:** Prof. Stefan Werner (NTNU, Norway), Reza Arablouei (CSIRO's Data61, Australia)

## Skills

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**Programming Languages:** Python

**Engineering Softwares:** MATLAB, Microsoft Office

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

## Publications

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### Journal Papers

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- 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.

### Conference Papers

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- 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

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**Persian:** Native proficiency

**English:** Full professional proficiency

**Norwegian, Bokmål:** Limited working proficiency

## Honors and awards

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**Offer for Assistant Professor Position**  
*NTNU*

**Department of Electronic Systems (IES)**  
*Fall 2022*

**Accepted for PhD Program**  
*NTNU*

**Department of Electronic Systems (IES)**  
*Fall 2019*

**McGill Engineering International Tuition Award (MEITA)**  
*McGill university*

**ECE Department**  
*Fall 2019*

**Accepted for PhD Program**  
*McGill university*

**ECE Department**  
*Fall 2019*

## References

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Can be provided upon request