



Javad Aliakbari

Born on Oct. 16th, 1993
Currently living in Gothenburg,
Sweden

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Areas of Interests

- Graph Neural Networks
- Federated Learning
- Privacy
- Statistical Learning
- Distributed Learning
- Natural Language Processing

Numerical Tools

Python ●●●●

C++ ●●●●

Matlab ●●○○

Languages

English ●●●●

French ●○○○

Hobbies

Playing Chess

Learning New Languages

Solving Mathematical Problems

Watching Movies/Documentaries

Education

Feb. 2023. – Present Ph.D. | Chalmers University of Technology, Sweden

Description: I am working on federated learning and graph neural networks with a focus on privacy considerations, developing models that ensure data privacy while enabling decentralized learning.

Supervisor: Prof. Alexandre Graell i Amat

Sep. 2016. – Jan. 2019. M.Sc. | Sharif University of Technology, Iran

Communication systems group | GPA: 16.06/20

M.Sc. Thesis: De-anonymization attacks on social networks and graph data

Supervisor: Dr. Javad Mohajeri

Sep. 2012 – Aug. 2016. B.Sc. | University of Tehran, Iran

Electrical engineering department | GPA: 16.30/20

B.Sc. Thesis: Implementing a music recognition application (Shazam)

Supervisor: Dr. Ali Akhaee

Publications

Javad Aliakbari, Johan Ostman, and Alexandre Graell i Amat. Decoupled Subgraph Federated Learning. accepted at International Conference on Learning Representations (ICLR), 2025.

Javad Aliakbari, Johan Ostman, and Alexandre Graell i Amat. Subgraph Federated Learning via Spectral Methods. submitted to International Conference on Machine Learning (ICML), 2025.

Industrial Experience

Sep. 2021 – Jan. 2023. Snapp! Group Company

Working as a data scientist in the first and leading ride-sharing platform in Iran known as *Snapp!*

- NLP projects for topic extraction and question answering.
- Time series prediction for predicting the ride price in the near future.

Sep. 2017 – Dec. 2020. Faraz Electronic Industries

Working as a researcher in communications and machine learning.

- Detecting and classifying drone signals using deep learning.

Teaching Experience

Nov. 2023 - Present Teaching Assistant in Advanced Probabilistic Machine

Learning | **Instructor:** Prof. Alexandre Graell i Amat | Chalmers University of Technology.

Selected Academic Courses

- Statistics and machine learning in high dimensions
- Machine Learning on Graphs
- Computer Vision
- Pattern Recognition