Mohammad Hoseinpour

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Last Update: January 27, 2026

RESEARCH INTERESTS

- Probabilistic Machine Learning
- Generative Models
- Information Theory
- Stochastic Processes

EDUCATION

- **Babol Noshirvani University of Technology** Babol, Mazandaran, Iran
  M.Sc. in Electrical Engineering - Communications, System Sep. 2023 – present
  Thesis : Diffusion Models for Solving Inverse Problems in Image Processing
  Advisor: Prof. Ali Aghagolzadeh

- **Babol Noshirvani University of Technology** Babol, Mazandaran, Iran
  B.Sc. in Electrical Engineering - Communications Sep. 2017 – Sep. 2022
  Final Project : Privacy Preserving Machine Learning; A Differentially Private Logistic Regression
  Advisor: Prof. Ali Aghagolzadeh

JOURNAL PUBLICATION

- **Privacy-Preserving and Approximately Truthful Local Electricity Markets: A Differentially Private VCG Mechanism** [Link]
  Milad Hoseinpour, **Mohammad Hoseinpour**, Mahdi Haghifam, Mahmoud-Reza Haghifam
  IEEE Transactions on Smart Grid, 2023

CONFERENCE PUBLICATION

- **Accuracy Improvement in Differentially Private Logistic Regression: A Pre-training Approach**[Link]
  Mohammad Hoseinpour, Milad Hoseinpour, Ali Aghagolzadeh
  Conference on Artificial Intelligence and Future Technologies (ICAIFT), 2023 **(Oral Presentation)**

TEACHING

- **Teaching Assistant** at Babol Noshirvani University of Technology Babol, Mazandaran, Iran
  Course: Statistical Pattern Recognition Sep. 2025 – present
  Instructor: Prof. Mehdi Ezoji

- **Teaching Assistant** at Babol Noshirvani University of Technology Babol, Mazandaran, Iran
  Course: Deep Learning Feb. 2025 – Aug. 2025
  Instructor: Prof. Fatemeh Zamani

- **Teaching Assistant** at Babol Noshirvani University of Technology Babol, Mazandaran, Iran
  Course: Digital Image Processing Sep. 2024 – Jan. 2025
  Instructor: Prof. Ali Aghagolzadeh

- **Teaching Assistant** at Babol Noshirvani University of Technology Babol, Mazandaran, Iran
  Course: Statistics and Probability Feb. 2022 – July. 2022
  Instructor: Prof. Javad Kazemitabar

SKILLS

- **Programming Languages:** Python (Scipy, Numpy, PyTorch), TensorFlow, R, MATLAB, C
- **Tools:** GIT, LaTeX

Selected Graduate Courses

- Stochastic Process
- Information Theory
- Statistical Pattern Recognition
- Coding Theory
- Deep Learning (Audit)

- Machine Vision
- Digital Image Processing
- Digital Signal Processing
- Estimation Theory (Audit)
- Convex Optimization (Audit)

Internship

- **Telecommunication Company of Iran - TCI**　　　　　　　　　　Sari, Mazandaran, Iran
  Data Center　　　　　　　　　　　　　　　　　　　　　　　　　　　Jul. 2022 – Sep. 2022

Honors and Awards

- **Ranked 2nd out of 10 M.Sc. graduating class students in Communications - System**　　2025
- **National Scholarship for the Master's degree, Iran Ministry of Education**　　2023
- **National Scholarship for the Bachelor's degree, Iran Ministry of Education**　　2017

Selected Talks

- **Diffusion Models for Solving Inverse Problems in Image Processing**　[Link]
  M.Sc. Seminar　　　　　　　　　　　　　　　　　　　　　　　　　　March 2023

- **Accuracy Improvement in Differentially Private Logistic Regression: A Pre-training Approach**　[Link]
  Conference on Artificial Intelligence and Future Technologies (ICAIFT)　　November 2023