

Mohammad Hoseinpour

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RESEARCH INTERESTS

- Probabilistic Machine Learning
- Information Theory
- Generative Models
- 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, L^AT_EX

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 2024
- **Accuracy Improvement in Differentially Private Logistic Regression: A Pre-training Approach** [Link]
Conference on Artificial Intelligence and Future Technologies (ICAIFT) November 2023