

# Mohammad Hoseinpour

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## RESEARCH INTERESTS

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

## EDUCATION

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- **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

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- **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

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- **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

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- **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

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- **Programming Languages:** Python (Scipy, Numpy, PyTorch ), TensorFlow, R, MATLAB, C
- **Tools:** GIT, L<sup>A</sup>T<sub>E</sub>X

## SELECTED GRADUATE COURSES

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- 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

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

## HONORS AND AWARDS

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- 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

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- **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