

# Mohammad Hoseinpour

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## RESEARCH INTERESTS

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- Learning Theory
- Machine Unlearning
- Generative Models
- Differential Privacy

## EDUCATION

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- **Babol Noshirvani University of Technology** Babol, Mazandaran, Iran  
M.Sc. in Electrical Engineering - Communications, System Sep. 2023 – present
- **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

## 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
- **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

## TEACHING

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- **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

## SELECTED COURSES

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- Statistics and Probability
- Estimation Theory (Audit)
- Stochastic Process
- Convex Optimization (Audit)
- Coding Theory
- Digital Image Processing
- Machine Vision
- Digital Signal Processing
- Information Theory
- Engineering Mathematics
- Pattern Recognition And Machine Learning

## 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

## PRESENTATIONS

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- **Accuracy Improvement in Differentially Private Logistic Regression: A Pre-training Approach** [\[Link\]](#)  
Conference on Artificial Intelligence and Future Technologies (ICAIFT) November 2023
- **Denoising Diffusion Probabilistic Models** [\[Link\]](#)  
Image Processing Course Presentation February 2023
- **Differentially Private Electricity Market** [\[Link\]](#)  
Summer Research Internship Interview June 2023

## REFERENCES

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- **Prof. Ali Aghagolzadeh**  
Professor at Babol Noshirvani University of Technology  
Email: [aghagol@nit.ac.ir](mailto:aghagol@nit.ac.ir)
- **Prof. Mehdi Ezoji**  
Associate Professor at Babol Noshirvani University of Technology  
Email: [m.ezoji@nit.ac.ir](mailto:m.ezoji@nit.ac.ir)
- **Prof. Javad Kazemitabar**  
Assistant Professor at Babol Noshirvani University of Technology  
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