# Mohammad Hoseinpour

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## RESEARCH INTERESTS

- Learning Theory
- Generative Models

- Machine Unlearning
- Differential Privacy

## EDUCATION

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

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  B.Sc. in Electrical Engineering - Communications  Sep. 2017 – Sep. 2022
  Final Project : Privacy Preserving Machine Learning; A Differentially Private Logistic Regression

## RESEARCH EXPERIENCE

- **Babol Noshirvani University of Technology**  Babol, Mazandaran, Iran
  Host: Prof. Ali Aghagolzadeh  Apr. 2023 – Aug. 2023
  Topic: Accuracy Improvement In Differentially Private Logistic regression

## 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

- **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

- **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

- Statistics and Probability
- Stochastic Process
- Coding Theory
- Machine Vision
- Information Theory (Next Semester)
- Pattern Recognition (Next Semester)

- Estimation Theory (Audit)
- Digital Image Processing
- Digital Signal Processing
- Signals and Systems
- Engineering Mathematics

## SKILLS

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

- **Tools:** GIT, LaTeX

## TEST SCORES

- **TOEFL iBT Test Date:** September 7, 2024

## PRESENTATIONS

- **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

- **Prof. Ali Aghagolzadeh**
  Professor at Babol Noshirvani University of Technology
  Email: aghagol@nit.ac.ir

- **Prof. Mehdi Ezoji**
  Associate Professor at Babol Noshirvani University of Technology
  Email: m.ezoji@nit.ac.ir

- **Prof. Javad Kazemitabar**
  Assistant Professor at Babol Noshirvani University of Technology
  Email: j.kazemitabar@nit.ac.ir