

Mohammad Hoseinpour

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RESEARCH INTERESTS

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

EDUCATION

- **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

- **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
- Estimation Theory (Audit)
- Stochastic Process
- Digital Image Processing
- Coding Theory
- Digital Signal Processing
- Machine Vision
- Signals and Systems
- Information Theory (Next Semester)
- Engineering Mathematics
- Pattern Recognition (Next Semester)

SKILLS

- **Programming Languages:** Python (Scipy, Numpy, PyTorch), TensorFlow, R, MATLAB, C
- **Tools:** GIT, $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$

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
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