Mohammad Hoseinpour

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Last Update: August 4

Research Interests

- Trustworthy Machine Learning

- Data Privacy

- Information Theory

Education

- **Babol Noshirvani University of Technology** — Babol, Mazandaran, Iran
  B.Sc. in Electrical Engineering - Communication Systems — Sep. 2017 – Sep. 2022
  Final Project : Privacy Preserving Machine Learning; A Differentially Private Logistic Regression

Research Experience

- **University of Virginia** — Charlottesville, Virginia, United States . Remote
  Host: Prof. Ferdinando Fioretto — Jun. 2023 – Present
  Topic: Privacy-Preserving Data Sharing Mechanism For Longitudinal Data

- **Babol Noshirvani University of Technology** — Babol, Mazandaran, Iran
  Host: Prof. Ali Aghagolzadeh — Apr. 2023 – Present
  Topic: Accuracy Amplification 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

- **A Differentially Private Data Sharing Mechanism for Smart Meters: An Approach for Longitudinal Data**
  Milad Hoseinpour, **Mohammad Hoseinpour**, Ferdinando Fioretto, Mahmoud-Reza Haghifam
  Power System Computation Conference, 2024 (In Progress).

- **Accuracy Amplification in Differentially Private Logistic Regression: A Pre-Training Aprroach** [Link]
  Mohammad Hoseinpour, Milad Hoseinpour, Ali Aghagolzadeh
  International Conference on Computer and Knowledge Engineering, 2023 (Under Review).

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

- Engineering Mathematics

- Signals and Systems

- Digital signal Processing

- Privacy in Statistics and Machine Learning, taught by Adam Smith and Jonathan Ullman (Online Course)

- Algorithms for Private Data Analysis, taught by Gautam Kamath (Online Course)

- High Dimensional Probability, taught by Roman Vershynin (Online Course)

- Statistical Learning, Stanford Online

SKILLS

- **Programming Languages:** Python, R, MATLAB, C

- **Tools:** GIT, LaTeX

TEST SCORES

- **TOEFL iBT Test Date:** August 26, 2023

INTERNSHIP

- **Telecommunication Company of Iran - TCI**   Sari, Mazandaran, Iran
  Data Center   Jul. 2022 – Sep. 2022
  Supervisor : Prof. Mohammad-Reza Zahabi

PRESENTATIONS

- **Differentially Private Logistic Regression** [Download]
  Course: Final Project
  Instructor: Prof. Ali Aghagolzadeh

- **Differentially Private Synthetic Data: An Introduction** [Download]
  Summer Research Internship
  Supervisor: Prof. Ali Aghagolzadeh

REFERENCES

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

- **Prof. Javad Kazemitabar**
  Assistant Professor at Babol Noshirvani University of Technology
  Relationship: TA in Statistics and Probability
  Email: j.kazemitabar@nit.ac.ir