Mohammad Hoseinpour

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RESEARCH INTERESTS

- Differential Privacy

- Trustworthy Machine Learning

- Learning 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 [Link]
  Supervisor : Prof. Ali Aghagolzadeh

RESEARCH EXPERIENCE

- **Syracuse University** — Syracuse, New York, United States
  Host: Prof. Ferdinando Fioretto — Jun. 2023 – Present
  Topic: Differential Privacy

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

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**, 2022 (Revised, Under Review).

- **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).

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, SQL

- **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** [Link]
  Course: Final Project
  Instructor: Prof. Ali Aghagolzadeh

- **Speaker Diarization** [Link]
  Course: Digital Signal Processing
  Instructor: Prof. Ataollah Ebrahimzadeh

- **Stealth** [Link]
  Course: Microwave
  Instructor: Prof. Ataollah Ebrahimzadeh

- **Capacitive Sensors** [Link]
  Course: Electromagnetic
  Instructor: Prof. Seyed Ehsan Hosseininejad

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