

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 Approach** [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, L^AT_EX

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
- **Speaker Diarization** [Download]
 Course: Digital Signal Processing
 Instructor: Prof. Ataollah Ebrahimzadeh
- **Stealth** [Download]
 Course: Microwave
 Instructor: Prof. Ataollah Ebrahimzadeh
- **Capacitive Sensors** [Download]
 Course: Electromagnetic
 Instructor: Prof. Seyed Ehsan Hosseinienejad

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