

## RESEARCH INTERESTS

---

- Data Privacy
- Trustworthy Machine Learning
- Probability Theory
- Statistics

## 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: Privacy Attacks In Machine Learning

## 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**  
**Mohammad 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,  $\text{\LaTeX}$

## 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 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