

# Mohammad Hoseinpour

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Last Update: August 4

## RESEARCH INTERESTS

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- Trustworthy Machine Learning
- Data Privacy
- Information Theory

## EDUCATION

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- **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

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- **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

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- **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

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- **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

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- 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

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- **Programming Languages:** Python, R, MATLAB, C
- **Tools:** GIT, L<sup>A</sup>T<sub>E</sub>X

## TEST SCORES

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

## INTERNSHIP

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

## PRESENTATIONS

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- **Differentially Private Logistic Regression** [Download]  
 Course: Final Project  
 Instructor: Prof. Ali Aghagolzadeh
- **Differentially Private Synthetic Data: An Introduction** [Download]  
 Summer Research Internship  
 Instructor: Prof. Ali Aghagolzadeh
- **Speaker Diarization** [Download]  
 Course: Digital Signal Processing  
 Instructor: Prof. Ataollah Ebrahimzadeh

## REFERENCES

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- **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