

# Mohammad Hoseinpour

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## EDUCATION

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- **Babol Noshirvani University of Technology**  
B.Sc. in Electrical Engineering - Telecommunications Babol, Iran  
Sep. 2017 – Sep. 2022

## RESEARCH INTERESTS

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- Differential Privacy
- Trustworthy Machine Learning
- Probabilistic Inference

## PUBLICATION

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- **A Differentially Private Mechanism for Local Electricity Markets**  
Milad Hoseinpour, **Mohammad Hoseinpour**, Mahdi Haghifam, Mahmoud-Reza Haghifam, **IEEE Transactions on Smart Grid**, 2022 (Revised, Under Review).[Link]
- **Accuracy Amplification In Differentially Private Logistic Regression: A Pre-Training Approach**  
**Mohammad Hoseinpour**, Milad Hoseinpour, Ali Aghagolzadeh, 2022 (In Progress).

## PROJECT

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- **Privacy-preserving Machine Learning**  
B.Sc. Final Project  
Supervisor: Prof. Ali Aghagolzadeh  
Description: Developing a differentially private logistic regression.[code]

## TEACHING

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- **Teaching Assistant** at Babol Noshirvani University of Technology Feb. 2022 – Jul. 2022  
Course: Statistics and Probability  
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)
- Neural Networks and Deep Learning, taught by Andrew NG (Online Course)
- Linear Algebra, taught by Gilbert Strang and Sarah Hansen (Online Course)

## SKILLS

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

## TEST SCORES

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- **TOEFL iBT Test Date:** April 29, 2023

## INTERNSHIP

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

## PRESENTATIONS

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- **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

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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  
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