



# Milad Hoseinpour

Curriculum Vitae  
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 miladpourv.github.io  
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## RESEARCH INTERESTS

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Differential Privacy, Algorithmic Game Theory, Mechanism Design, Trustworthy Machine Learning

## EDUCATION AND RESEARCH EXPERIENCE

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- **Tarbiat Modares University** Tehran, Iran  
Graduate Research Assistant Sep. 2017 – Present  
Host: Prof. Mahmoud-Reza Haghifam  
Project: **Privacy-Preserving Market Design for Local Energy Communities**
- **Tarbiat Modares University** Tehran, Iran  
**M.Sc.** in Electrical Engineering, Power Systems (GPA: 4.0/4.0) Sep. 2013 – Jan. 2016  
Thesis: Probabilistic Decision Making for Flexibility Management in Distribution Systems  
Advisor: Prof. Mahmoud-Reza Haghifam
- **Babol Noshirvani University of Technology** Babol, Iran  
**B.Sc.** in Electrical Engineering, Power Systems (GPA: 3.77/4.0) Sep. 2009 – Sep. 2013

## JOURNAL PUBLICATIONS

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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).
- Prosumers' Cost Recovery in Peer-to-Peer Electricity Markets  
**Milad Hoseinpour**, Mahmoud-Reza Haghifam, **Electric Power Systems Research**, 2022 (Under Review).

## CONFERENCE PUBLICATIONS

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- Privacy by Design in Local Electricity Markets: A Differentially Private Gradient Method  
**Milad Hoseinpour**, Mahmoud-Reza Haghifam, 27th International Conference on Electricity Distribution, **CIREN**, 2023 (Abstract Accepted, Full Paper Under Review).
- Accuracy Amplification In Differentially Private Logistic Regression : A Pre-Training Approach  
**Mohammad Hoseinpour**, Milad Hoseinpour, Ali Aghagolzadeh, (In Progress).
- Role of Microgrids in Distribution Networks Congestion Management  
**Milad Hoseinpour**, Mahmoud-Reza Haghifam, 25th International Conference on Electricity Distribution, **CIREN**, 2019.
- Simultaneous Optimization of Tie Switches Placement and Reserve Capacity Margin of Sub-Transmission Substations with Considering the Conflict Between Short-Term and Long-Term Planning  
**Milad Hoseinpour**, Mahmoud-Reza Haghifam, 24th International Conference on Electricity Distribution, **CIREN**, 2017.

- Flexible Scheduling of Active Distribution Networks for Market Participation with Considering DGs Availability  
**Milad Hoseinpour**, Mahmoud-Reza Haghifam, Electrical Power Distribution Networks Conference, **EPDC**, 2017.
- Trade-Off Between Flexible and Economic Operation of a Microgrid Under Risk Assessment  
**Milad Hoseinpour**, Mahmoud-Reza Haghifam, Electrical Power Distribution Networks Conference, **EPDC**, 2017.

## TEACHING

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- **Teaching Assistant** at Tarbiat Modares University Fall 2018 - Spring 2020  
Course: Reliability Evaluation of Power Systems  
Instructor: Prof. Mahmoud-Reza Haghifam
- **Teaching Assistant** at Tarbiat Modares University Fall 2014 - Fall 2015  
Course: Reliability Evaluation of Power Systems  
Instructor: Prof. Mahmoud-Reza Haghifam
- **Teaching Assistant** at Babol Noshirvani University of Technology Spring 2013  
Course: Principles of Electric Machines  
Instructor: Prof. Meysam Jafari
- **Teaching Assistant** at Babol Noshirvani University of Technology Spring 2012  
Course: Circuit Theory  
Instructor: Prof. Meysam Jafari

## SKILLS

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

## SELECTED GRADUATE COURSES

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- 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)
- Game Theory, taught by Matthew O. Jackson, Kevin Leyton-Brown, Yoav Shoham (Online Course)

## INDUSTRY EXPERIENCE

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- **Co-Founder**, Moj Irsaye Mehr (MIM) Startup Company May 2017 – Oct. 2019  
Developing an IoT based platform for residential demand response programs
- **Internship**, Sari Regional Power Distribution Company Jul. 2013 – Sep. 2013  
Load forecasting in distribution systems

## HONORS AND AWARDS

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- Ranked 2nd out of 15 M.Sc. graduating class students in Power Systems, 2016.
- National Scholarship for the Master's degree, Iran Ministry of Education, 2013.
- Awarded as Outstanding B.Sc. Student, Babol Noshirvani University of Technology, 2013.
- Ranked 88th out of about 35,000 participants in the nationwide entrance exams for a Master's degree in Electrical Engineering, 2013.
- National Scholarship for the Bachelor's degree, Iran Ministry of Education, 2009.

## SERVICE

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|----------------------------------------------------------------|-------------------------|
| • <b>Iran Renewable Energy Association</b>                     | April 2018 – Sept. 2020 |
| Collaboration for organizing seminars, webinars, and workshops |                         |
| • <b>Iranian Solar Energy Scientific Society</b>               | Feb. 2019 – Nov. 2020   |
| Technical and economical consultation team                     |                         |

## SELECTED PRESENTATIONS

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- Privacy-preserving Electricity Markets, Tarbiat Modares University, 2022.
- Differentially Private Logistic Regression, Babol Noshirvani University of Technology, 2022.
- Platform Provider Distribution Utilities, Tarbiat Modares University, 2020.
- Distribution Networks Cost Allocation and Tariff Design, Tarbiat Modares University, 2019.
- European Electricity Grid Expansion Planning Strategies, Tarbiat Modares University, 2018.
- Operational Flexibility in Power Systems, Babol Noshirvani University of Technology, 2017.