

# Soheil Saadatmandi, PhD in Electrical Engineering

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in Soheil Saadatmandi

🌐 <https://laorenxing.github.io/>

🌐 <https://scholar.google.com/citations?user=k5-Y0FUAAAAJ&hl=en>



## Education

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|--------------------------|---|
| 2022 – Expected Dec 2024 | 📖 <b>PhD in Electrical Engineering</b><br><i>Politecnico di Torino, Turin, Italy</i>                  |
| 2016 – 2018              | 📖 <b>M.Sc. in Electrical Engineering</b><br><i>Politecnico di Milano, Milan, Italy</i>                |
| 2010 – 2014              | 📖 <b>B.Sc. in Electronics Engineering</b><br><i>Shahid Bahonar University of Kerman, Kerman, Iran</i> |

## Work Experience

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|---------------------|--|
| Oct 2023 – Current  | 📖 <b>Researcher</b> , LINKS Foundation, Turin, Italy.                            |
| Nov 2019 – Oct 2020 | 📖 <b>Research Assistant</b> , Università Degli Studi di Bergamo, Bergamo, Italy. |

## Publications




### Journal Articles

- 1 S. Saadatmandi, G. Chicco, A. Favenza, A. Mozzato, F. Giordano, and M. Arnone, "Smart Electric Vehicle Charging for Reducing Photovoltaic Energy Curtailment," *Electric Power System Research*, vol. 230, 2024.
- 2 M. Brenna, C. Lazaroiu, M. Roscia, and S. Saadatmandi, "Dynamic Model for the EV's Charging Infrastructure Planning Through Finite Element Method," *IEEE ACCESS*, vol. 8, 2020.

### Conference Proceedings



- 1 S. Saadatmandi, M. Mazza, and G. Chicco, "Insights From Tracking the Loss Sensitivity with Respect to the Net Load in Distribution Networks," in *Proceedings of the 59th International Universities Power Engineering Conference (UPEC 2024)*, Wales, UK (Accepted), 2024.
- 2 A. Sindhu, S. Saadatmandi, and M. Arnone, "Enhancing Grid Resilience: Islanding Control in a Digital Twin of Real Electrical Distribution System," in *Proceedings of IEEE 6th Global Power, Energy and Communication Conference (GPECOM 2024)*, Budapest, Hungary, 2024, pp. 596–605.
- 3 A. Mazza, S. Saadatmandi, S. Safina, and G. Chicco, "Investigation on the Loss Allocation Properties in Distribution Networks with Distributed Generation," in *Proceedings of the 58th International Universities Power Engineering Conference (UPEC 2023)*, Dublin, Ireland, 2023, pp. 1–6.
- 4 S. Saadatmandi, G. Chicco, A. Favenza, H. Mirtaheri, and M. Arnone, "Exploiting Blockchain for Smart Charging of Electric Vehicles: A Proof of Stake Algorithm," in *Proceedings of Block Chain Power for Renewables Integration (BLORIN 2022)*, Palermo, Italy, 2022, pp. 62–67.
- 5 C. Lazaroiu, M. Roscia, and S. Saadatmandi, "Blockchain and Fuzzy logic Application in EV's Charging," in *9th International Conference on Renewable Energy Research and Application (ICRERA 2020)*, Glasgow, UK, 2020, pp. 315–320.
- 6 C. Lazaroiu, M. Roscia, and S. Saadatmandi, "Blockchain Strategies and Policies for Sustainable Electric Mobility Into Smart City," in *2020 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM 2020)*, Sorrento, Italy, 2020, pp. 363–368.

## Skills

- Languages       Strong reading, writing and speaking competencies for English  
Intermediate reading, writing and speaking competencies for Italian  
Persian, Mother tongue  
Little knowledge of Chinese
- Coding       Matlab, Python, C, PandaPowers, OpenDSS, ArcGIS
- Misc.       Electrical Energy Systems, Power System Analysis, Power Systems Modelling, Electric Power Distribution, Energy Management, EV Smart Charging, IT systems, Distributed Ledger Technology, Energy Efficiency, Hyper Ledger Fabric, Linux Based Blockchain Platforms, Finite Element Methodology, Artificial Intelligence

## Miscellaneous Experience

### Awards and Achievements

- 2021       **PhD Scholarship Award**, National Operational Program (PON) research and innovation PhD scholarship in Italy .
- 2019       **Research Grant Award**, Università degli studi di Bergamo.

### Certification

- 2014       TOEFL ( iBT )
- 2015       GRE

## References

- PhD Degree Supervisor       **Gianfranco Chicco**, *Full Professor at Politecnico di Torino*  
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- PhD Degree Co-supervisor       **Andrea Mazza**, *Associate Professor at Politecnico di Torino*  
andrea.mazza@polito.it +39 0110907141
- Research Supervisor       **Mriacristina Roscia**, *Associate Professor at University of Bergamo*  
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- Master Degree Supervisor       **Morris Brenna**, *Full Professor at Politecnico di Milano*  
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- Research Supervisor       **Alfredo Favenza**, *Program Manager at LINKS Foundation*  
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