

# Mohammad Hossein zadeh, Ph.D.

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## Employment History


- 2022 – ongoing  **Teacher Assistant** University of Bologna.
- 2013 – 2015  **Teacher Assistant** Babol University of Nooshirvani (NIT).

## Education




- 2022– ongoing  **Ph.D., University of Bologna** in Telecommunications Engineering  
Thesis title: *Channel Modelling by Machine Learning*
- 2019 – 2022  **M.Sc., University of Bologna** in Telecommunications Engineering  
Thesis title: *Physical Layer Security in Rician Channels*.
- 2016 – 2018  **Researcher, Amirkabir University of Technology** in Electrical Engineering  
Thesis title: *Energy Efficiency Management - Emotional State Recognition*.
- 2011 – 2016  **B.Sc., Amirkabir University of Technology** in Electrical Engineering  
Thesis title: *Simulation and Analysis of Autonomous Stair Climbing for Tracked Vehicle*.

## Research Publications

### Journal Articles

- 1 S. G. Varzaneh, A. Raziabadi, **M. H. zadeh**, and M. J. Sanjari, “Optimal energy management for pv-integrated residential systems including energy storage,” *IET Renewable Power Generation*, 2019.  URL: <http://hdl.handle.net/10108/79286>.

### Conference Articles

- 1 **M. H. zadeh**, S. Del Prete, F. Fuschini, M. Barbiroli, E. M. Vitucci, and V. Degli Esposti, “Machine learning approach to delay spread estimation in industrial environments,” in *Proceedings of 18th European Conference on Antennas and Propagation (EuCAP 2024)*, Glasgow, Scotland, 2024.
- 2 S. Del Prete, F. Fuschini, M. Barbiroli, and **M. H. zadeh**, “A study on propagation of frequency diverse array in multipath environments,” in *Proceedings of the 24th edition of the International Conference on Electromagnetics in Advanced Applications (ICEAA 2023)*, Venice, Italy, 2023, pp. 39–47.  URL: <http://goo.gl/pfdUfm>.
- 3 **M. H. zadeh**, F. Fuschini, M. Barbiroli, V. Degli Esposti, E. M. Vitucci, and S. Del Prete, “Site-specific machine learning approach for line of sight detection,” in *Proceedings of the 12th edition of the IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications (IEEE-APWC 2023)*, Venice, Italy, 2023, pp. 39–47.  URL: <http://goo.gl/pfdUfm>.
- 4 S. Del Prete, N. Di Cicco, **M. H. zadeh**, et al., “A study on line-of-sight prediction in urban manhattan-like environments using an optimized machine learning algorithm,” in *Proceedings of the 35th URSI General Assembly and Scientific Symposium (URSI GASS 2023)*, Sapporo, Japan, 2022, pp. 39–47.  URL: <http://goo.gl/pfdUfm>.

5

K. M. Sharifi, A. Raziabadi, B. Farzanegan, **M. H. zadeh**, and M. B. Menhaj, "Emotional state recognition based on brain and peripheral signals using multi-class optimized fsvm classifiers," in *Proceedings of 5th National Conference on Electrical and Mechatronics Engineering*, Tehran, Iran, 2019, p. 1.6.

## Skills

Languages	📖	Mother tongue Persian, Advanced English, Basic Italian.
Coding	📖	Python, MATLAB, $\LaTeX$ , SQL
Tools	📖	Ray Tracing
Misc.	📖	Academic Research, Teaching, Training, Consultation, $\LaTeX$ typesetting, and publishing.

## Miscellaneous Experience

### Awards and Achievements

2019     📖     **Merit Award**, UniBo Actio 2 Scholarship based on GRE exam.

### Certification

2022     📖     **Short-Range Radio Propagation: Theory, Models, and Applications.** Held by The European School of Antennas and Propagation (ESoA).

## References

**Prof Franco Fuschini**  
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**Prof Marina Barbiroli**  
University of Bologna,  
marina.barbiroli@unibo.it