

Mostafa Naseri

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Experience

Princeton University

Visiting Researcher in Prof. H. Vincent Poor's Lab

Princeton, USA

- Project: Learning-Based Compressed Image Transmission in Noisy Environments

University of Malaga

Visiting Researcher in Prof. Cristian Martín Fernández's ERTIS Research group

Malaga, Spain

- Project: Early Exit Models for Interference Cancellation

Ghent University

Doctoral in Computer Science, IDLab

Ghent, Belgium

- **Projects:**
 - Learning-Based Image Compression
 - Multimodal LLMs
 - Model Compression for Edge
- Blind Source Separation
- Reinforcement Learning
- Generalization in New Environments

Beijing University of Posts and Telecommunications

Research Assistant in Prof. Norman C. Beaulieu group

Beijing, China

- Project: Statistical Analysis, Wireless channel modeling

NOKIA

Network Planning and Optimization (NPO) Engineer

Tehran, Iran

NAK Telecom Managed Services

Quality Assurance (QA) Engineer

Tehran, Iran

University of Tehran

Research Assistant

Tehran, Iran

- Project: Resource allocation for Non-Orthogonal Multiple Access (NOMA)

Skills

Programming Python, C/C++, MATLAB, Verilog

Machine Learning CNN, Transformers, Reinforcement Learning, Model Compression, Transfer Learning

Machine Vision Image Generation, Image Compression

Tools & Frameworks PyTorch, TF, Git, K8s, Weights & Biases

Information Theory Entropy Coding, Data Compression

Signal Processing Source Separation, Time-Freq. Analysis

Wireless Comm. UWB, AoA Estimation, Beamforming, NOMA

Soft Skills Grant Writing, Research & Development, Team Collaboration, Problem Solving

Publications

Under Review

- M. Naseri, P. Ashtari, M. Seif, E. De Poorter, H. V. Poor, A. Shahid, "Learning-Based Image Compression for Wireless Communications: Effects on Reliability, Throughput, and Latency," *IEEE Journal on Selected Areas in Communications*.
- M. Naseri, E. De Poorter, I. Moerman, H. V. Poor, A. Shahid, "High-Throughput Blind Co-Channel Interference Cancellation for Edge Devices Using Depthwise Separable Convolutions, Quantization, and Pruning," under revision in *IEEE Open Journal of the Communications Society*.

Published (selected)

- M. Naseri, A. Shahid, E. De Poorter, "Adapting UWB AoA Estimation Towards Unseen Environments Using Transfer Learning and Data Augmentation," *Internet of Things*, vol. 27, 101298, 2024.
- M. Naseri, E. De Poorter, I. Moerman, H. V. Poor, A. Shahid, "Blind Co-Channel Interference Cancellation Using Fast Fourier Convolutions," in *Proc. IEEE 99th Vehicular Technology Conference (VTC2024-Spring)*, pp. 1-2, 2024.
- M. Naseri, J. Fontaine, I. Moerman, E. De Poorter, A. Shahid, "A U-Net Architecture for Time-Frequency Interference Signal Separation of RF Waveforms," in *Proc. IEEE Int. Conf. Acoust., Speech, Signal Process. (ICASSP)*, 2024.
- H. Navidan, M. Naseri, I. Moerman, A. Shahid, "Radio Resource Management for Intelligent Neutral Host (INH) in Multi-Operator Environments," *IEEE Open Journal of the Communications Society*, 2024.
- M. Naseri, A. Shahid, G. J. Gordebeke, S. Lemey, M. Boes, S. Van de Velde, E. De Poorter, I. Moerman, "Machine Learning-Based Angle of Arrival Estimation for Ultra-Wideband Radios," *IEEE Communications Letters*, vol. 26, no. 6, pp. 1273-1277, 2022.

Awards and Honors

- **Graduate/Research Assistantship & Tuition**
Awarding Body: University of Illinois at Chicago
Date: 2021
Amount: \$48,743
Theme: Research Assistantship.
- **FI DGR Grant for Predoctoral Research Staff Recruitment**
Awarding Body: Regional Government of Catalonia
Date: 2021
Amount: €23,774.97
Theme: Funded predoctoral grants for the recruitment of new Research Staff.
- **BGS Scholarship for Outstanding Academic Performance**
Awarding Body: Beijing University of Posts and Telecommunications
Date: 2018
Amount: RMB 40,000 (approximately €5,200)
Theme: Academic achievement during MSc studies.
- **MIT RF Challenge – Data-Driven Signal Separation in Radio Spectrum**
Awarding Body: ICASSP 2024
Date: 2024
Amount: Recognition only
Theme: Signal processing and deep learning techniques for RF interference separation.

Education

- Ghent University**
Ph.D. in Computer Science *Ghent, Belgium*
- Beijing University of Posts and Telecommunications**
Master of Science in Electronics and Communication Engineering *Beijing, China*
- Thesis: Physical Modeling of Wireless Fading Channels (GPA: 90/100), Supervisor: Norman C. Beaulieu
 - Projects:
 - Application of probability theory in wireless communication systems
 - Performance analysis of diversity combining techniques for correlated fading channels
- Shiraz University of Technology**
Bachelor of Science in Electrical Engineering, Communications *Shiraz, Iran*
- GPA: 17.16/20 (3.6/4)

Academic and Community Service

Reviewer: IEEE Communications Magazine, IEEE Transactions on Wireless Communications, IEEE Wireless Communications Letters, ICASSP.

Personal Interests

- Hobbies: Climbing, volleyball, hiking.
- Lived in 5 countries, embracing diverse cultures and experiences across different environments.

References

- **Eli De Poorter**
Professor at Ghent University
`eli.depoorter@ugent.be`
- **H. Vincent Poor**
Professor at Princeton University
`poor@princeton.edu`
- **Ingrid Moerman**
Professor at Ghent University
`Ingrid.Moerman@UGent.be`