Mostafa Naseri

📞 (+32)49-359-1844 — ✉ mostafa.naseri@ugent.be — 🔗 linkedin.com/in/mostafanaseri

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, W&B, Azure

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

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.

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.

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`