

# Ilari Angervuori

## Curriculum Vitae

### A Brief Cover Letter

I am a researcher in signal processing with a recent PhD (thesis is in pre-examination), and I am ready for new challenges. With a strong academic research background, I am determined to contribute to the industry and to practical-level problem-solving in wireless communications.

### Work Experience

- 5/2025-9/2025 **Project Researcher**, *Aalto University*, Department of Electrical Engineering, Espoo, Finland  
-Communicating and managing an R&D project
- 8/2023-2/2024 **Visiting Researcher**, *University of Notre Dame*, Department of Electrical Engineering, South Bend, Indiana, US  
-Communicating and managing an R&D project
- 05/2019-05/2025 **PhD Candidate**, *Aalto University*, Signal Processing of Wireless Networks, Espoo, Finland  
-Implementation of the personal doctoral R&D plan  
-Communicating and managing R&D projects  
-Supervising Bachelor's thesis  
-Participation in international conferences
- 11/2018-5/2019 **Research Assistant**, *Aalto University*, Department of Signal Processing and Acoustics, Espoo, Finland  
-Design and implementation of an R&D plan

### Education

- 2025 **Doctor of Science (PhD)**, *Aalto University*, Department of Electrical Engineering, Signal Processing for Communications  
Stochastic Geometry and Low Earth Orbit (LEO) Communications
- 2018 **Master of Philosophy (Msc)**, *University of Helsinki*, Department of Mathematics and Statistics, Applied Analysis  
Partial Differential Equations, Finite Element Method (FEM)
- 2016 **Bachelor of Science**, *University of Helsinki*, Applied Analysis  
Optimal Control Theory

### Peer-Reviewed Publications

Ilari Angervuori

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Please find links to my GitHub and SoundCloud on my home page

- 2025 **Meta Distribution of the SIR in a Narrow-Beam LEO Uplink**, *IEEE Transactions on Communications*, I. Angervuori, M. Haenggi and R. Wichman
- 2022 **A Closed-Form Approximation of the SIR Distribution in a LEO Uplink Channel**, *IEEE Globecom: Workshop on Cellular UAV and Satellite Communications*, Rio De Janeiro, I. Angervuori and R. Wichman, Oral Presentation
- 2020 **Downlink Coverage and Rate Analysis of Low Earth Orbit Satellite Constellations Using Stochastic Geometry**, *IEEE Transactions on Communications*, N. Okati, T. Riihonen, D. Korpi, I. Angervuori and R. Wichman
- 2020 **Theoretical and Simulation-based Analysis of Terrestrial Interference to LEO Satellite Uplinks, Taipei, Taiwan**, *GLOBECOM Global Communications Conference, Taipei*, A. Yastrebova, I. Angervuori, Niloofar Okati, et al.
- 2019 **Performance Evaluation of Low Earth Orbit Communication Satellites**, *Proceedings of XXXV Finnish URSI Convention on Radio Science*, N. Okati, I. Tanash, T. Riihonen, I. Angervuori and R. Wichman
- 2019 **On Routing Protocols in Inter-Satellite Communications**, *Proceedings of XXXV Finnish URSI Convention on Radio Science*, I. Angervuori, R. Wichman, N. Okati and T. Riihonen, Oral Presentation

## Preprints

- 2025 **Spatial and Temporal Correlation of the Interference in a Narrow-Beam LEO Network with ALOHA Medium Access Control**, *TechRxiv, submitted to IEEE Communications Letters*, I. Angervuori, A. Afridi and R. Wichman
- 2025 **Order Statistics of the SIR and Interference Cancellation in a Narrow-Beam LEO Uplink**, *TechRxiv, submitted to IEEE Communications Letters*, I. Angervuori and R. Wichman

## Computer Skills

- Beginner C, C++
- Intermediate JAVA, PYTHON, Audio Signal Processing
- Advanced OCTAVE, MATLAB, MATHEMATICA, L<sup>A</sup>T<sub>E</sub>X, Linux Operating System

## Languages

- Mothertongue Finnish
- Excellent English
- Others Swedish, Spanish

## Recognitions

- 2024 **Peer Reviewer Certificate**, IEEE Transactions, Mobile Computing

## References

- Prof. Martin Haenggi, University of Notre Dame, mhaenggi@nd.edu
- Prof. Risto Wichman, Aalto University, risto.wichman@aalto.fi

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