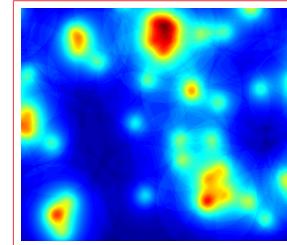


# Ilari Angervuori

## Curriculum Vitae

Ilari Angervuori  
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please find my GitHub and SoundCloud in the link.



### A Brief Cover Letter

I am interested in wireless communication networks, particularly low Earth orbit (LEO), and the application of stochastic geometry and machine learning in signal processing. I have a solid mathematical background.

### Work Experience

- 5/2025- 9/2025 **Project Researcher**, Aalto University, Department of Electrical Engineering, Espoo, Finland  
- Managed an R&D research article project [7] through on-campus collaboration.
- 8/2023- 2/2024 **Visiting Researcher**, University of Notre Dame, Department of Electrical Engineering, South Bend, Indiana, US  
- Served as the corresponding author in an R&D article project [1]: coordinated co-authors, managed journal submission, responded to reviewers, and oversaw revisions to acceptance.
- 05/2019- 05/2025 **PhD Candidate**, Aalto University, Signal Processing of Wireless Networks, Espoo, Finland  
- Conceived, designed, and implemented a personal R&D plan.  
- Reviewed and refined R&D article projects and other production with collaborations [1-8].  
- Supervised a **bachelor's thesis**.  
- Applied for multiple competitive grants and **secured** funding.  
- Delivered oral presentations at conferences [2], [6].
- 11/2018- 5/2019 **Research Assistant**, Aalto University, Department of Signal Processing and Acoustics, Espoo, Finland  
- Co-developed a structured R&D plan with the supervising professor, defining objectives, methodology, and milestones.

### Education

- 2025 **Doctor of Science (PhD) (thesis in pre-examination)**, 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.
- 2016 **Bachelor of Science (BSc)**, University of Helsinki, Applied Analysis  
- Optimal Control Theory.

### Peer-Reviewed Publications

- 2025 [1] **Meta Distribution of the SIR in a Narrow-Beam LEO Uplink**, IEEE Transactions on Communications, I. Angervuori, M. Haenggi and R. Wichman

- 2022 [2] **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 [3] **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 [4] **Theoretical and Simulation-based Analysis of Terrestrial Interference to LEO Satellite Uplinks, Taipei, Taiwan**, *GLOBECOM Global Communications Conference, Taipei*, A. Yastrebova, I. Angervuori, Nilofar Okati, et al.
- 2019 [5] **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 [6] **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 [7] **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 [8] **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++
- Intermediate JAVA, PYTHON,C, Audio Signal Processing
- Advanced OCTAVE, MATLAB, MATHEMATICA, L<sup>A</sup>T<sub>E</sub>X, Linux Operating System

## Languages

- Native 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, +1 574-631-6103
- Prof. Risto Wichman, Aalto University, risto.wichman@aalto.fi, +358 40 0800801
- MsC. Abid Afridi, Aalto University, abid.afridi@aalto.fi