

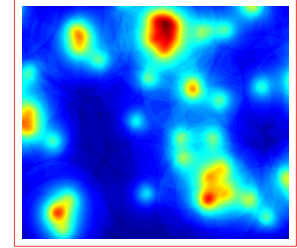
Ilari Angervuori

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, Niloofar 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 ^A T _E 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.afриди@aalto.fi