



Ilari Angervuori

Curriculum Vitae

A Brief Cover Letter

A researcher in signal processing with a fresh PhD (will be officially graduating within months). With a strong Academic background, I am determined to contribute to the industry and to more practical-level problem-solving. Not afraid of creativity and even non-orthodoxy, while being also capable of applying existing solutions to a new context. My research has focused on Low Earth Orbit (LEO) networks. For example, the most recent work explored the correlation properties of interference in the LEO networks. Further, I have broad expertise particularly in mathematical signal processing.

Work experience

- 1.5.-1.9.2025 **Project Researcher**, *Aalto University*, Department of Electrical Engineering, Espoo, Finland
- 1.8.2023-1.2.2024 **Visiting Researcher**, *University of Notre Dame*, Department of Electrical Engineering, South Bend, Indiana, US
- 1.5.2019-1.5.2025 **PhD Candidate**, *Aalto University*, Signal Processing of Wireless Networks, Espoo, Finland
- 2018-1.5.2019 **Research Assistant**, *Aalto University*, Department of Signal Processing and Acoustics, Espoo, Finland

Education

- 2025 **Doctor of Science (PhD)**, *Aalto University*, Department of Electrical Engineering, Signal Processing
LEO network system-level modeling
- 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**, *University of Helsinki*, Applied Analysis
Optimal Control Theory

Ilari Angervuori

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Please find my GitHub and SoundCloud on my home page

Peer-reviewed publications

- 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 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 and A. Afridi
- 2025 **Order Statistics of the SIR and Interference Cancellation in a Narrow-Beam LEO Uplink**, *TechRxiv*, I. Angervuori and R. Wichman

Computer skills

Knowledgeable JAVA, PYTHON, C, Audio Signal Processing

Advanced OCTAVE, MATLAB, MATHEMATICA, \LaTeX , Linux Operating System

Languages

Mother tongue Finnish

Fluent English

Others Swedish, Spanish

Recognitions

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

Interests

○ Reading and writing

○ Listening to music and playing music

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