Ilari Angervuori

Academic Curriculum Vitae

https://ilari.angervuori.fi/
+358 440301190
ilari.angervuori@aalto.fi, jangerv2@nd.edu

Education

2016-2018 **Master of Philosophy**, *University of Helsinki – Faculty of Science – Department of Mathematics and Statistics*, Applied Analysis, Excellent results

2010-2016 **Bachelor of Science**, *University of Helsinki*, Applied Analysis

Work experience

1.8.2023-current **Research Visitor**, *University of Notre Dame*, Dept. of Electrical Engineering

1.5.2019-current **PhD Candidate**, *Aalto University*, Department of Signal Processing and Acoustics, Stochastic Geometry and Wireless Communications in Satellite Networks
Funded position in the department of Signal Processing and Acoustics

2018-1.5.2019 **Research Assistant**, *Aalto University*, Department of Signal Processing and Acoustics, Stochastic Geometry in Cellular Satellite Networks
Funded position in the department of Signal Processing and Acoustics

2017 **Course Assistant**, *University of Helsinki*, Integral Calculations, 4 months

2015 **Conference Arrangement at the Applied Inverse Problems (AIP) Conference**, *University of Helsinki*, 1 month

Accepted publications

2022 **I. Angervuori, R. Wichman, A Closed-Form Approximation of the SIR Distribution in a LEO Uplink Channel In : 2022 IEEE Globecom Workshops (GC Wkshps): Workshop on Cellular UAV and Satellite Communications, December 4 - 8, Rio de Janeiro, Brazil, accepted for presentation**

2020 **N. Okati, T. Riihonen, D. Korpi, I. Angervuori and R. Wichman, "Downlink Coverage and Rate Analysis of Low Earth Orbit Satellite Constellations Using Stochastic Geometry," in IEEE Transactions on Communications, vol. 68, no. 8, pp. 5120-5134, Aug. 2020, doi: 10.1109/TCOMM.2020.2990993.**

2020 **A. Yastrebova et al., "Theoretical and Simulation-based Analysis of Terrestrial Interference to LEO Satellite Uplinks," GLOBECOM 2020 - 2020 IEEE Global Communications Conference, Taipei, Taiwan, 2020, pp. 1-6, doi: 10.1109/GLOBECOM42002.2020.9347980.**

2019 **N. Okati, I. Tanash, T. Riihonen, I. Angervuori, W. Risto, "Theoretical and Simulation-based Analysis of Terrestrial Interference to LEO Satellite Uplinks," Proceedings of XXXV Finnish URSI Convention on Radio Science.**

2019 **I. Angervuori, W. Risto, N. Okati, T. Riihonen, "On routing protocols in inter-satellite communications," Proceedings of XXXV Finnish URSI Convention on Radio Science.**

Languages

Basics	Spanish	*I have studied in four basic courses in Spanish.*
Intermediate	Swedish	*Second major language in high school.*
Fluent	English	*Major language in high school. In use daily.*
Mother tongue	Finnish	

Areas of competences

My background is in applied mathematics, and I have a wide box of skills in there, and I have a solid knowledge e.g. in partial differential equations and probability theory. Since my graduation from the University of Helsinki, I have aimed towards engineering and pursued research on low earth orbit satellite communications at Aalto University. My interests are in modeling wireless communication networks, and I am familiar with frequency reuse, MIMO, multiplexing, fading etc. I have applied stochastic geometry to wireless satellite communication systems in creative ways. I have worked with various programming languages like Matlab, Wolfram, C, Java etc. I am eager to participate in constructive challenges and to learn more.

References

- Please refer to Professor Risto Wichman from Aalto University, risto.wichman@aalto.fi.