Ilari Angervuori

Academic Curriculum Vitae

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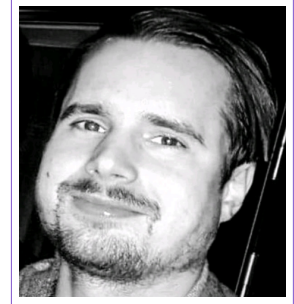
▬▬▬ Education

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

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

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

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

▬▬▬ Published research

2020 **Downlink Coverage and Rate Analysis of Low Earth Orbit Satellite Constellations Using Stochastic Geometry Okati, N., Riihonen, T., Korpi, D., Angervuori, I. Wichman, R., Aug 2020, In : IEEE Transactions on Communications. 68, 8, p. 5120-5134 9079921.**

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	*Three 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 strong in mathematics, 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 strong in modeling wireless communication networks and I have an understanding of concepts like frequency reuse, MIMO, multiplexing, fading etc. In my research, I have applied stochastic geometry to wireless communication, and particularly to satellite communications, in an unprecedented and creative manner. I have worked with various programming languages like Java, C, Matlab 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.