



## Nikita Tafintsev

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Born 22 June 1995 (24 years)

### WORK EXPERIENCE

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August 2017 – present

#### Research Assistant

Tampere University. Faculty of Information Technology and Communication Sciences

- Mathematical optimization
- Network analysis of mmWave-based aerial networks
- Network simulations and antenna design for 5G/5G+ wireless systems
- Developing and implementing capacity and coverage optimization algorithms designed to meet performance requirements in terms of throughput and latency

### EDUCATION

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2017 – present

#### Master's Degree with Honours in Information Technology

Tampere University, Finland. Communication Systems and Networks

- 5G communications
- Theoretical and practical experience in wireless communication systems
- Radio communications, propagation and system-level RF issues
- Multicarrier and multiantenna digital communication techniques
- Operating principles and resource management algorithms in wireless networks
- **Minor:** Pattern recognition and machine learning
- **Master's Thesis:** Aerial Access and Backhaul in mmWave B5G Systems

2013 – 2017

#### Bachelor's Degree with Honours in Telecommunications

Peter the Great St.Petersburg Polytechnic University, Russia. Radio Engineering and Telecommunication Systems

- Mathematical analysis
- Programming (C/C++, Python, MATLAB)
- Ultra-high frequency devices and antennas
- Electromagnetic fields and waves
- **Bachelor's Thesis:** Characterizing Wireless Connectivity with a Multicopter UAV

### SKILLS

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#### Technical skills

- Python, MATLAB, C/C++
- Machine learning
- Strong mathematical background
- Modeling

#### Soft skills

- Learning ability
- Problem solving
- Critical thinking

### ACCOMPLISHMENTS

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#### Publications

Improved Network Coverage with Adaptive Navigation of mmWave-Based Drone-Cells

- 2018 IEEE Globecom Workshops

<b>Selected projects</b>	Positioning of Light Show Drones in the Sky. Intel Finland <ul style="list-style-type: none"><li>• Measuring and defining the exact positions of flying objects</li></ul> Smart navigation assistant. Huawei Finland <ul style="list-style-type: none"><li>• Android AI application with the use of Huawei AI SDK. Innovativeness Prix</li></ul> Intelligent platform for customer interaction. SAP Finland <ul style="list-style-type: none"><li>• Junction Hackaton project</li></ul>
<b>Languages</b>	English – Fully professional proficiency Russian – Native proficiency Finnish – Elementary proficiency Kazakh – Fully professional proficiency