

Jakub Liška

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Scientific Interests

electromagnetic field theory, fundamental bounds, computational electromagnetics, numerical and convex optimization, numerical techniques, eigenproblems, implantable antennas, magnetic traps, pulse shaping

Education

- 2021–present **Doctor of Philosophy in Radioelectronics**, *Fundamental Bounds on Electromagnetic Quantities Based on Current Density*.
Department of Electromagnetic Field, Faculty of Electrical Engineering,
Czech Technical University in Prague
- 2019–2021 **Master of Science in RF and DSP Engineering**, *Fundamental Bounds on Magnetic Levitation and Magnetic Confinement*, passed with distinction.
Department of Electromagnetic Field, Faculty of Electrical Engineering,
Czech Technical University in Prague
- 2016–2019 **Bachelor of Science in Open Electronic Systems**, *Optimal Quality Factor of Air Cored Inductors*, passed with distinction.
Department of Electromagnetic Field, Faculty of Electrical Engineering,
Czech Technical University in Prague

Other Studies

- 22nd–27th, **ESoA Course**, *Advanced Mathematics for Antenna Analysis*.
May 2023 University of Zagreb
- 5th–9th, **ESoA Course**, *Antenna Synthesis*.
Sep 2022 Università degli Studi di Napoli Federico II
- 6th–10th, **ESoA Course**, *Reconfigurable Intelligent Surfaces for Smart Radio Environment*.
Jun 2022 University of Siena
- Feb–May **Exchange Student**.
2021 Department of Electronics and Nanoengineering, School of Electrical Engineering,
Aalto University

Working Experience

- 2018–present **Research Assistant**, *Member of Antenna Toolbox for MATLAB antennatoolbox.com development team*, programming tasks in MATLAB,
Computational Electromagnetics Group, Department of Electromagnetic Field,
Faculty of Electrical Engineering, Czech Technical University in Prague
- Oct 2021–
–Aug 2022 **Junior Researcher**, *Fundamental Bounds on Implanted Antennas*.
Microwaves and Antennas Group, School of Engineering,
Swiss Federal Institute of Technology in Lausanne

Computer Skills

Advance	MATLAB
Intermediate	L ^A T _E X, Tikz, GIT
Basic	CST Studio Suite, COMSOL Multiphysics, AWR Microwave Office, C/C++, Python, PHP, Mathematica

Languages

Czech	Native Speaker	
English	C1 level	<i>Proficient User</i>
French	B2 level	<i>Independent User</i>

Awards

2019	Dean's prize for excellent bachelor project
2021	Dean's prize for excellent master project