

CURRICULUM VITAE



PERSONAL DATA

Name Olivér Csaba Kürtössy
Citizenship Hungarian
Date & place of birth 07. 09. 1995., Budapest
Current position Research assistant, Department of Physics, Budapest University of Technology and Economics, Budafoki út 8, H-1111 Budapest, Hungary
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EDUCATION

2014-2017 BSc in physics (Applied Physics), Department of Physics, BUTE
2017-2019 MSc in physics (Nanotechnology-Materials Science), Department of Physics, BUTE
2019- PhD in physics, Department of Physics, BUTE

WORK EXPERIENCE

Research assistant
Department of Physics, BUTE, 2016- fabrication of nanocircuits with electron-beam lithography, low-temperature transport of InAs nanowires, Cooper-pair splitting, superconductivity

Teaching assistant

2017 Introductory Physics (for BSc chemical engineers)
2019 Physics 1i (Mechanics for BSc IT engineers)
2020 Physics 2i (Electromagnetism for BSc IT engineers)
2020 Mathematics A1a - Calculus (for BSc chemical engineers)
2020- Physics laboratory (for MSc physicists)

AWARDS

2017 Scientific Students' Association
2nd place
Experimental Physics Special Award (Experimental Physics section)

2019 Fellowship granted by the Republic

2022 Zemplén Győző Research Award

2022 Best Poster Award, 29th International Conference on Low Temperature Physics, Sapporo

2022 New National Excellence Program Award (Hungarian Republic)

2023 New National Excellence Program Award (Hungarian Republic)

PUBLICATION LIST

- 2019 Elalaily, T., **Kürtössy, O.**, Zannier, V., Scherübl, Z., Lukács, I., Rossi, F., Srivastava, P., Sorba, L., Csonka, S., Makk, P.: *Probing proximity induced superconductivity in InAs nanowire using built-in barriers*
Phys. Rev. Applied 2019, 14, 044002
- 2021 **Kürtössy, O.**, Scherübl, Z., Fülöp, G., Lukács, I., Kanne, T., Nygård, J., Makk, P., Csonka, S.: *Andreev molecule in parallel InAs nanowires*
Nano Lett. 2021, 21, 19, 7929–7937
- 2021 Elalaily, T., **Kürtössy, O.**, Scherübl, Z., Berak, M., Fülöp, G., Lukács, I., Kanne, T., Nygård, J., Watanaba, K., Taniguchi, T., Makk, P., Csonka, S.: *Gate-controlled supercurrent in an epitaxial Al/InAs nanowires*
Nano Lett. 2021, 21, 22, 9684–9690
- 2022 **Kürtössy, O.**, Scherübl, Z., Fülöp, G., Lukács, I., Kanne, T., Nygård, J., Makk, P., Csonka, S.: *Parallel InAs nanowires for Cooper pair splitters with Coulomb repulsion*
Nature PJ Quantum Mater. 2022, 7, 88
- 2024 **Kürtössy, O.**, Bodócs, M., Scherübl, Z., Kanne, T., Nygård, J., Makk, P., Csonka, S.: *Polyatomic Andreev molecule in a superconducting island-double quantum dot hybrid*
manuscript under preparation

MTMT identifier 10073307

LANGUAGE SKILLS

English Advanced (Euroexam C1)

Japanese Intermediate (JLPT N4)