

CURRICULUM VITAE

2nd June 2022



Surname: Huotari

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Year of Birth: 1975

Nationality: Finnish

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Address: Department of Physics, P. O. Box 64, FI-00014
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Education

- 2013 Title of Docent in Physics, University of Helsinki (UH), Finland
- 2003 Doctor of Philosophy, in Physics; Department of Physics, UH
- 1999 Master of Science, in Physics; Department of Physics, UH

Current professional appointment

- 1.1.2021 – Head of Department, Dept. Physics, UH
- 1.2.2017 – Professor of Physics, Dept. Physics, UH

Previous professional appointments

- 1.1.2011 – 31.1.2017 University Lecturer, Dept. of Physics, UH
- 1.9.2011 – 31.8.2016 Academy Research Fellow, Dept. of Physics, UH
- 1.8.2010 – 31.12.2010 University Research Fellow, Dept. of Physics, UH
- 1.10.2007 – 31.7.2010 Beamline Scientist, European Synchrotron Radiation Facility (ESRF)
- 1.10.2004 – 30.9.2007 Post-Doctoral Researcher, ESRF

Research funding and supervision experience

- 2011 – 2013 150,000€ UH 3-year Research Funds (PI)
- 2011 – 2016 500,000€ Academy of Finland Research Fellow funding (PI)
- 2016 21,000€ Foundations (Aaltonen, CIMO, Wihuri) (PI)
- 2016 89,000€ UH Faculty of Science research infrastructure funds (PI)
- 2016 – 2020 815,000€ Academy of Finland project funds (PI)
- 2017 – 2021 300,000€ Academy of Finland research infrastructure funds
(concordium member)
- 2017 100,000€ UH Faculty of Science research infrastructure funds (PI)
- 2010 – 2022 250,000€ Total of foundations + grad school funding for my students
- Group leading and supervision, since 2007:
 - Main supervisor for 4 post-docs, co-supervisor for 3
 - Main supervisor for 6 PhD students, co-supervisor for 3
 - Main supervisor for 20 M.Sc. students, co-supervisor for 6

Teaching: Lecturer at the Department of Physics, UH

- Solid State Physics (10 ECTS) 2011-2020; Fundamentals of Materials Research (5 ECTS) 2016-2020; Synchrotron Light in Materials Science (5 ECTS) since 2017; Laboratory Exercises in Physics (10 ECTS), since 2019

Other scientific and academic duties and merits

- Member of the BERRIES beamline working group, Diamond Light Source (2022-)
- European XFEL beamtime proposal panel committee member (2018-)
- Science advisory committee member of MAX-IV Laboratory (2017-) and DESY (2015-)
- ESFRI Strategic Working Group on Physical Sciences and Engineering: member (2016-)
- Finnish Synchrotron Radiation Users' Organization: chair (2013-2018)
- Finnish National Committee of Crystallography, vice-chair (2014-2022), chair (2023-)
- Spring-8 synchrotron (Japan), Soleil synchrotron (France), Stanford Synchrotron Radiation Lightsource (US) and National Synchrotron Radiation Research Center (Taiwan): beamtime proposal external reviewer
- Peer reviewer in international journals: Nature Materials, Nature Communications, Physical Review Letter, Chemistry: A European Journal, New Journal of Physics, Physical Review A, Physical Review B, EPL, Journal of Physics: Condens. Matter, J. Synchrotron Radiation, Rev. Sci. Instrum., J. El. Spectr. Rel. Phen., Nuclear Inst. and Methods in Physics Research B, Geochimica et Cosmochimica Acta
- Research proposal reviewer for Slovenian Research Agency (ARRS) (2015-) and the Polish National Research Centre (2015-)
- Beamline review committee member at SOLEIL synchrotron, France (2015) and Petra-III, Germany (2017, 2020)
- Organizing conferences and memberships in organizing committees:
 - Main organizer: 6 scientific national conferences and workshops, co-organizer in 4 (40-100 participants each)
 - Program committee member: 5 international conferences (150-300 participants each)
- Institutional responsibilities at the Faculty of Science, UH
 - Head of the Department of Physics, Member of the Faculty of Science Steering Group, and Member of the Faculty of Science Council (2021-), Member of the Scientific and Infrastructure Board, Faculty of Science, 2017-2021 Board member of the Department of Physics 2017-, UH 3-year grant evaluation panel chairman 2016-2018, Board member of Materials Research Master's Program 2016-2021, Board member of the Doctoral Program in Materials Research and Nanosciences 2016-2020, Member of the Dept. Physics teaching qualification committee 2019-2020,
- Other academic responsibilities: pre-examiner in 2 PhD thesis (Finland), evaluator of 1 docentship (Finland) and 4 international professional stabilisations or promotions (US, Germany, Switzerland, Slovenia, US), jury member in 2 PhD thesis defenses (France)
- ~45 invited talks and lectures in international conferences, workshops and schools, out of which 12 plenary/keynote)

Research indices

- **h-index 35**, sum of times cited 3220 (2.6.2022 Web of Science)
- **>150** peer-reviewed international scientific publications, including journals such as **Nature Materials** (IF 43.84), **Nano Energy** (IF 17.88), **Angewandte Chemie Int.Ed.** (IF 15.34), **PNAS** (IF 11.2), **Water Research** (IF 11.24), and **Physical Review Letters** (**IF 9.16**). One **chapter in book**, Book title: Time-dependent Density Functional Theory, 2nd edition (Lecture Notes in Physics, Springer-Verlag, 2012), edited by E.K.U. Gross, Miguel Marques, Fernando Nogueira, and Angel Rubio. Chapter 2. Title: Spectroscopy in the frequency domain.