

PERSONAL INFORMATION

Family name, First name: **Ojanen, Teemu**
Nationality: Finland
Researcher ID: **C-2579-2014**
Date of birth: **6.6.1979**
URL for web site: **<http://ltl.tkk.fi/~teemu/>**
Year of first publication: **2005**
h-index: **19** (Google Scholar 15.1.2019)
Language skills: Finnish (native), English (excellent)
Swedish, German (basic)



EDUCATION

2017 Title of Docent, Aalto University
2007 *Fluctuations and transport in mesoscopic physics*, PhD Thesis, Engineering physics and mathematics/
Helsinki University of Technology, Finland
2003 Master of Science in Engineering physics and Mathematics, Helsinki University of Technology

CURRENT POSITION(S)

2018– Associate Professor (Tenure Track), Leader of the group *Theory of Quantum Matter*, Physics Unit,
Tampere University, Finland

PREVIOUS POSITIONS

2012 – 2017 Academy Research Fellow/ Senior scientist, Aalto University, Finland
1.9.2011-31.7.2012 **Harvard University**
Research stay at the condensed matter theory group
1.4.2010-31.8.2012 Postdoctoral fellow of the Academy of Finland, Low Temperature Laboratory, **Aalto University**
1.3.2008-31.3.2010 Postdoctoral researcher, **Freie Universität Berlin**
Postdoctoral period in the quantum transport group of Prof. Felix von Oppen
15.12.2007-28.2.2008 Postdoctoral researcher, **Helsinki University of Technology**

FELLOWSHIPS

2012 – 2017 Academy Research Fellow, Department of Applied Physics, Aalto University Finland

SUPERVISION OF STUDENTS AND POSTDOCS

2019- Long Liang, postdoc supervisor, ongoing (Tampere University)
2019- Moein N. Ivaki, PhD supervisor, ongoing (Tampere University)
2018- Isac Sahberg, PhD supervisor, ongoing (Tampere University)
2018 Alex Westström, PhD Thesis (Aalto University, Finland)
2018 Kim Pöyhönen, PhD Thesis (Aalto University, Finland)
2016, Joel Röntynen, PhD Thesis, (Aalto University, Finland)
2012, Tomi Ruokola, PhD Thesis Aalto University, Finland)
2017 Isac Sahberg, Master's Thesis (Aalto University, Finland)
2015 Alex Westström, Master's Thesis (Aalto University, Finland)
2015 Kim Pöyhönen, Master's Thesis Aalto University, Finland)
2014 Jaakko Hujanen, Master's Thesis (with Nuutti Hyvönen)
2011 Jukka Väyrynen, Master's Thesis (Aalto University, Finland)
2013 Alex Westström, Bachelor's Thesis (Aalto University, Finland)
2013 Kim Pöyhönen, Bachelor's Thesis (Aalto University Finland)

The four completed PhD theses and the rest can be accessed through my web page <http://ltl.tkk.fi/~teemu/>.
My former MSc student Jukka Väyrynen obtained PhD from *Yale University* and is a postdoc researcher in *Microsoft Station Q*. My former PhD students Joel Röntynen moved to *Princeton*, Kim Pöyhönen moved to *Delft University of Technology* and Alex Westström to *Westlake University* (China) for a postdoc.

TEACHING ACTIVITIES

As lecturer: Advanced Quantum Mechanics (Aalto University 2017)

As teaching assistant: Quantum many-body theory (Helsinki 2004), Quantum computation (Helsinki 2005), Theoretische Physik I (FU Berlin 2008,2009), Theoretische Physik II (FU Berlin 2008), Nanophysics (Aalto 2014). As a guest lecturer: *Introduction to topological matter* in Nanophysics course (2014, 2016, Aalto University).

ORGANISATION OF SCIENTIFIC MEETINGS

2015 (January) Winter school on nanoscale quantum thermodynamics and topological superconductivity, Helsinki, Finland (Five day event with 70 international participants).

INSTITUTIONAL RESPONSIBILITIES

2018 – Faculty member, Physics Unit, Tampere University, Finland

2012 – 2018 Group leader, Department of Applied Physics, Aalto University, Finland

REVIEWING ACTIVITIES

2014 – Scientific reviewer of Veni grant application for NWO (the Dutch Research Council)

2014 – Scientific reviewer of FONDECYT grant for Chilean National Science and Technology Commission

2018 – Scientific reviewer of Israel Science Foundation's Individual Grant

2018 – Scientific reviewer of Poland National Science Centre's Preludium grant

2018 – Scientific reviewer of Poland National Science Centre's Opus grant

2019 – Scientific reviewer of Swiss National Science Foundation project (930 000 CHF)

2018 – PhD Thesis examiner of Chris Carrol, St. Andrews, UK.

2019 – PhD Thesis examiner of Flore Kunst, Stockholm University, Sweden.

FUNDING

Total received competitive funding >1.2M€ (applied as a PI)

2017 Centre of Quantum Engineering, Aalto University, €100 000 for the project “Designer topological matter” together with Peter Liljeroth.

2012-2017 Academy fellowship of the Academy of Finland, 5 years personal funding €407 272 and research expenses (€239 904 for 2012-2015, and €199 104 for 2015-2017).

2015 Centre of Quantum Engineering, Aalto University, €35 000 for starting the project “Atomically well-defined topological band structures” together with Peter Liljeroth.

2012 Grant from Research Foundation of Helsinki University of Technology, €10 000 to cover extra expenses from my stay at Harvard University between 2011-2012.

2010-2012 Postdoctoral fellowship of the Academy of Finland, €266 000 for personal salary

INVITED TALKS AND PRESENTATIONS

2012 Invited seminar, University of Jyväskylä, Finland

2013 Invited lecture in summer school in Espoo, Finland

2014 Invited talk, *Topological and Dirac matter*, 12-14.11 Bordeaux, France

2014 Invited talk, *TopOslo* workshop on topological matter, 9-11.12 Oslo

2015 Invited seminar, 18.2. University of St. Andrews, Scotland

2015 Invited seminar, 19.3. University of Uppsala, Sweden

2016 Invited seminar, 23.1. University of Orsay (Paris), France

2017 Invited talk, 22.-24.3.2017 Physics Days Finland

2017 Invited talk, "*Frontiers of topological quantum matter*", 1-5.5 2017 Nordita, Stockholm

2017 Invited seminar, 31.5. University of Utrecht, Netherlands

2017 Invited talk, "*International Workshop on topological aspects of quantum matter*", 12-15.6 2017, Helsinki, Finland

2017 Invited talk, *21st Symposium on Quantum matter*, 13-14.7 Corfu, Greece

2018 invited talk "*New platforms for topological superconductivity with magnetic atoms*", 9.4.2018 Max Planck Institute Dresden, Germany

2019 Invited talk, "*Majorana modes and beyond*", 26-27.2, Warsaw, Poland

2019 Invited talk, "*Topological Quantum Matter*" program, July, Nordita, Stockholm

REFeree ACTIVITIES

I have reviewed manuscripts for the following journals:

Science, Nature, Nature Communications, Reviews of Modern Physics, Physical Review Letters, Physical Review A, Physical Review B, Physical Review E, New Journal of Physics, Scientific Reports, Sci-Post, Physica E, Physica Status Solidi B, J. Low Temp. Phys.,