

PERSONAL DETAILS

Family name, First name: Martikainen, Henri
 Researcher ID: <https://orcid.org/0000-0002-5940-905X>, Mathscinet ID 963282
 URL for website: wiki.helsinki.fi/display/mathstatHenkilokunta/Henri+Martikainen
 Date of birth, Nationality: 25 July 1986, Finland
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EDUCATION

2012 PhD, Department of Mathematics and Statistics, University of Helsinki, Finland
 Supervised by Prof. T. Hytönen, Awarded with Distinction
 2010 MSc, Department of Mathematics and Statistics, University of Helsinki, Finland
 2009 BSc, Department of Mathematics and Statistics, University of Helsinki, Finland
 2017 Title of Docent, Mathematics, Department of Mathematics and Statistics, University of Helsinki, Finland
 Academic Assessors: Prof. Steve Hofmann, Prof. Sergei Treil
 Teaching Evaluation Grade: Excellent

CURRENT POSITION

2016–2021 Academy Research Fellow, Department of Mathematics and Statistics, University of Helsinki, Finland

PREVIOUS POSITIONS

2013–2016 Postdoctoral researcher of the Academy of Finland
 Department of Mathematics and Statistics, University of Helsinki, Finland
 2012–2013 Postdoctoral researcher, grant from the Emil Aaltonen foundation
 Département de Mathématiques d’Orsay, Université Paris-Sud 11, France
 2012 Postdoctoral researcher
 Department of Mathematics and Statistics, University of Helsinki, Finland
 2010–2012 Doctoral student
 Department of Mathematics and Statistics, University of Helsinki, Finland
 2009 Research assistant
 Department of Mathematics and Statistics, University of Helsinki, Finland

PERSONAL RESEARCH FUNDING AND GRANTS

Total of 1.25 million EUR in grants/fellowships as PI since 2012.

2019–2021 Academy of Finland, Academy Research Fellow, research costs of the last two years, project number 327271, EUR 140 000
 2019 Finnish Academy of Science and Letters, The Magnus Ehrnrooth foundation and DOMAST, additional funding to organise the conference Harmonic Analysis and PDEs, EUR 17 500
 2018–2020 University of Helsinki, three-year research grant, project number 75160010, EUR 150 000
 2016–2021 Academy of Finland, Academy Research Fellow, project number 294840, EUR 434 485 (salary of the PI)
 2016–2019 Academy of Finland, Academy Research Fellow, research costs of the first three years, project number 306901, EUR 204 485
 2013–2016 Academy of Finland, postdoctoral researcher, project number 266262, EUR 260 110
 2012–2013 The Emil Aaltonen Foundation, Postdoc grant, Université Paris-Sud, EUR 33 000

PUBLICATIONS

Total of 30 accepted papers and multiple arXiv preprints. Google scholar lists 573 citations with h-index 13, while Mathematical Reviews says “Henri Martikainen is cited 222 times by 122 authors”.

LEADERSHIP AND SUPERVISION EXPERIENCE

Team leader of postdocs and PhD students.

- 2015– Number of Postdocs 1, number of PhD Students 3, number of Master Students 3; all at the University of Helsinki
 PhD students: Emil Vuorinen (main supervisor joint with T. Hytönen) graduated 2017, two current PhD students (Emil Airta 2018–, Tuomas Oikari 2018–)
 Postdocs: E. Vuorinen (2017–2018, 2020–2021)

Funding application mentor: Multiple postdocs have received funding either from the Foundations' Post Doc Pool or from the the Academy of Finland under my guidance. Total money granted > EUR 1M.

LONGER PROFESSIONAL VISITS ABROAD

- Two visits to CRM (Centre de Recerca Matemàtica), 4 weeks in total during 2014, 2015. Contacts: Mihalis Mourgoglou, Jonas Azzam, Prof. Xavier Tolsa
- Georgia Institute of Technology, 3,5 months, 2014. Host: Prof. Michael Lacey
- Michigan State University, 4 weeks, 2010. Host: Prof. Alexander Volberg

For employment abroad see PREVIOUS POSITIONS.

TEACHING EXPERIENCE

Teaching Evaluation Grade: Excellent (see also *Title of Docent* above). Ten credits of studies in university pedagogy (2011, 2019).

Teaching at the University of Helsinki:

- 2021 Spring: Master's thesis seminar (5 ECTS credits)
 2019 Spring: Fourier analysis I (5 ECTS credits); Fall: Real analysis I (5 ECTS credits)
 2017 Spring: Geometric measure theory and singular integrals (5 ECTS credits)
 2015 Fall: Harmonic analysis and square functions (5 ECTS credits)

Crafted new lecture notes for the courses Real Analysis I, Fourier Analysis I and Harmonic analysis and square functions.

Supervised 3 Master's theses and 1 Bachelor's thesis.

Development of teaching: part of a group developing and planning several master level analysis courses at the University of Helsinki.

INSTITUTIONAL RESPONSIBILITIES, PROFESSIONAL SERVICE

- 2020 Organizer of the Harmonic Analysis session at the Finnish Mathematical Days
 2019 Member of the PhD committee of Carmelo Puliatti, PhD student of Xavier Tolsa and Joan Verdera. Defence of the dissertation: UAB, Barcelona, 11 December 2019
 2019 Main organizer (with M. Mourgoglou and F. Di Plinio) of the conference [Harmonic Analysis & PDEs](#), University of Helsinki, 3-7 June 2019; over 100 participants
 2018– Organizer of the *Harmonic Analysis Seminar* at the University of Helsinki
 2015– Graduate Student Advisor at the University of Helsinki

Referee/advisor for over 15 different international journals of high stature, including, International Mathematics Research Notices, Journal of the European Mathematical Society, Memoirs of the American Mathematical Society & Proceedings of the London Mathematical Society

INVITED TALKS

- (1) Colloquium, Washington University in St. Louis, December 5, 2019.
- (2) [Summer School on Dyadic Harmonic Analysis, Martingales, and Paraproducts](#), Bazaleti, Georgia, September 2–6, 2019. A minicourse of 5 lectures.

- (3) [ICM 2018 Satellite Conference in Harmonic Analysis](#), Federal University of Rio Grande do Sul, Brazil, July 24–29, 2018.
- (4) The International Workshop on Singular Integral Operators, Chern Institute of Mathematics, Nankai University, China, July 3–6, 2018.
- (5) 2nd Bilbao meeting on analysis and PDEs, BCAM, Bilbao, May 3–5, 2017.
- (6) Sectional AMS meeting in Albuquerque, University of New Mexico, Albuquerque, April 4–6, 2014.
- (7) Research Term on Real Harmonic Analysis and Applications to PDE, ICMAT, Madrid, April–June 2013.
- (8) Workshop on Singular Integrals, Randomness and Weights, University of Helsinki, August 29–31, 2012.
- (9) Harmonic Analysis Meeting (ANR FRAB Meeting 2012), Université Paul Sabatier, Toulouse, May 23–25, 2012.
- (10) Analysis and Partial Differential Equations (in honor of Eric Sawyer), Fields Institute, Toronto, July 26–29, 2011.

In addition, multiple talks in weekly analysis seminars and similar: Lund University, Massachusetts Institute of Technology (MIT), Georgia Institute of Technology, Université Paris-Sud 11, Michigan State University, University of Helsinki, University of Jyväskylä, Aalto University.