

Curriculum Vitae

Name: Kari Astala

Personal Details

- Date of birth : 26th of July, 1953
- Place of birth : Helsinki
- Sex : Male
- Nationality : Finnish
- Residence : Helsinki

Education

- University of Helsinki Finland, 1977
 - MSc in Mathematics
- University of Helsinki Finland, 1980
 - PhD in Mathematics
- University of Helsinki Finland, 1984
 - Docent in Mathematics

Current position

Adjunct Professor, Aalto University Sept. 1, 2017 to date

Address

Department of Mathematics and Systems Analysis,
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kari.astala@aalto.fi

Employment

- Academy of Finland
 - Research Assistant 1979–1980, 1982–1984
 - Senior Research Fellow 1986–1989, 1993–1995
 - Senior Research Grant 1991–1992, 1997–1998, 2004–2005
 - Academy Professor 2006–2011
- University of Jyväskylä
 - Assistant 1980–1982
 - Professor 1995–2002
- University of Helsinki
 - Assistant 1984–1985
 - Associate Professor 1990–1991, 1992–1993
 - Professor 2002–2017
- Aalto University
 - Adjunct Professor 2017 to date

Prizes and Honors

- Salem Prize 1994
- Invited speaker at ECM 1996, Budapest, 1996
- Invited speaker at ICM 1998, Berlin, 1998
- Magnus Ehrnrooth Foundation Prize 2003
- Finnish Cultural Foundation Prize 2011
- Invited speaker at ECM 2012, Krakow, 2012

Editorial Work

- Editor of Conformal Geometry and Dynamics 1997–2004
- Editor of Advances in Calculus of Variations 2008–2015
- Editor of Revista Matemática Iberoamericana 2011 to date

Research Visits (a month or more)

- University of Michigan
 - Research Fellow 8/1981–12/1981
 - Visiting Assistant Professor 1/1982–7/1982
 - Visiting Gehring Professor 1/2000–5/2000
- MSRI, Berkeley 1/1986–3/1986, 3/1995
 - Eisenbud Professor 10/2010–12/2010
- Mittag-Leffler Institute, Stockholm 9/1989–2/1990, 1/2002–2/2002
- Universidad Autónoma de Madrid 3/1990–5/1990, 4/2006, 9/2010, 5/2012
- Technische Universität Berlin 6/1990–8/1990, 5/1997
- University of Bordeaux 9/1991, 1/1992
- Institute for Advanced Study, Princeton 5/1996
- Université Paris-Sud (Orsay) 3/1996
- University of Washington, Seattle 6/2000
- Università di Roma, La Sapienza 5/2001
- Centre de Recerca Matemàtica, Barcelona 5/2006, 5/2009
- Syracuse University 9/2007
- IPAM, Los Angeles 3/2007–5/2007, 4/2013–6/2013
- Instituto de Ciencias Matemáticas, Madrid 5/2013, 5/2014, 5/2015, 5/2016, 5/2017
- Loire Valley Institute of Advanced Study, Orleans 9/2014–4/2015

Membership in scientific societies

- Member of Finnish Mathematical Society 1997–
President 2002 – 2006
- Finnish Academy of Sciences and Letters, member 1997–
Secretary of Mathematics and Computer Science section 2004–2009

Organisation of International Conferences

- Conformal Geometry and Dynamics, Saariselkä, 1997
- Euroconference in Conformal Geometry, Helsinki, 1995
- Summerschool in Dynamics, Jyväskylä, 1997
- Workshop in Harmonic Analysis and Stochastics, Jyväskylä, 2001
- Funktionentheorie, Oberwohlfach, 2001
- Summerschool in Random Structures, Jyväskylä, 2002
- Lars Ahlfors Centennial Celebration, Helsinki, 2007
- Workshop on Random Structures and Conformal Methods, Helsinki, 2009
- Conformal Maps from Probability to Physics, Monte Verita, Ascona, 2010

Other Academic Activities

- Member of the executive committee of the ESF-program
– ‘Probabilistic methods in dynamical systems’ 1998–2003
- Finnish team leader in the EU-funded Marie-Curie network CODY
– ‘Conformal structures and dynamics’ 2007–2011
- Sectional panels of the ICM program committees
– Member of the sectional panel ‘Real and Complex Analysis’, ICM 2002
– Member of the sectional panel ‘Analysis’, ICM 2010
– Chair of the sectional panel ‘Analysis and Operator Algebras’, ICM 2018
- Mittag-Leffler Institute: Member of the board of trustees 2005–2008
- Member of the committee evaluating Swedish mathematical research 2010
- Member of the committee evaluating the University of Oulu, Finland 2013–2014

Opponent at a PhD defence: Univ. Orleans (1999), Univ. Paris Sud, Orsay (1998), Univ. Helsinki (1986, 1992), DTU–Copenhagen (2000), KTH–Stockholm (2005), Univ. Autònoma de Barcelona (2015)

Peer review for NSF, SFR, Academy of Finland, Israel Science Foundation, SNF/Switzerland. Referee for several mathematical journals.

Invited talks, plenary talks and minicourses at several international congresses;
Here is a selection of recent conferences:

- [1] Complex analytic methods in inverse problems **Vancouver**, 2007
Applied inverse problems
- [2] Quasiconformal mappings and analysis on metric spaces **Ann Arbor**, 2008
Conference in honour of Juha Heinonen
- [3] The nonlinear Fourier transform and inverse problems **Stockholm**, 2009
Dynamical trends in Analysis
- [4] Exploring the limits of visibility in Calderon’s inverse problem **Berkeley**, 2010
Inverse problems, theory and applications
- [5] Calderón’s problem in Electrical Impedance Tomography **Cambridge**, 2011
Analytic and geometric methods in medical imaging
- [6] Holomorphic deformations and quasiconformal mappings **Krakow**, 2012
6th European Congress of Mathematicians
- [7] Burkholder integrals and biLipschitz mappings **Leipzig**, 2013
International conference on fluids and variational methods
- [8] Rotational multifractal spectra for biLipschitz deformations **Helsinki**, 2014
Conference in honour of Antti Kupiainen

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- [9] Asymptotic variance under holomorphic motions Porquerolles, 2015
Fractals and related fields III
- [10] Invertibility of Beltrami operators and Chord-arc curves Bedlewo, 2016
Conference in honour of Alexander Volberg

Supervision of PhD-thesis

- Hans–Olav Tylli Helsinki, 1986
- Juha Rissanen Jyväskylä, 2002
- Daniel Faraco Helsinki, 2002
- Virpi Kauko Jyväskylä, 2003
- Antti Vähäkangas Helsinki, 2009
- Jarmo Jääskeläinen Helsinki, 2012
- Sauli Lindberg Helsinki, 2015

In addition, Lauri Hitruhin has finished his PhD Studies under my supervision,
and will defend his thesis in January, 2018.