

PERSONAL INFORMATION

Miettinen Pauli Aleksi

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Gender male — Date of birth 30 June 1982 — Nationality(-ies) Finnish

ORCID 0000-0003-2271-316X

EDUCATION

27 May 2013 Title of Docent in Computer Science, University of Helsinki, Finland
18 June 2009 Doctor of Philosophy, University of Helsinki, Finland
24 February 2006 Master of Science, University of Helsinki, Finland

CURRENT EMPLOYMENT

1 August 2018— Professor of Data Science, University of Eastern Finland, Kuopio

PREVIOUS EMPLOYMENTS

30 January 2013–31 July 2018 Senior Researcher, Max-Planck-Institut für Informatik, Saarbrücken, Germany
1 August 2010–29 January 2013 Postdoctoral Researcher Fellow, Max-Planck-Institut für Informatik, Saarbrücken, Germany
1 August 2009–31 July 2010 Postdoctoral Researcher, Helsinki Institute for Information Technology HIIT, University of Helsinki, Helsinki, Finland
1 January 2007–31 July 2009 PhD student, Helsinki Graduate School of Computer Science and Engineering (HECSE), University of Helsinki, Finland

RESEARCH FUNDING

2021–2023 H2020-MSCA-COFUND-2020 (Marie Skłodowska-Curie Cofund grant), 1 518 720 €, co-PI (1 PhD student).
1 January 2019–30 April 2021 Regional SOTE AI Hub, European Regional Fund/Regional Council of Pohjois Savo, 1 605 065 €, co-PI (responsible for one WP: 1 postdoc and 1 project researcher). Responsible PI: Prof. Arto Mannermaa

SUPERVISION

Post-doctoral researchers Responsible supervisor for Matej Mihelčić (2018) and Esther Galbrun (2013)
Graduate students Primary advisor for Sanjar Karaev (graduated 2019) and Saskia Metzler (est. graduation 2020), University of Saarland
Primary supervisor for 12 MSc students at Saarland University, 5 at University of Eastern Finland

TEACHING EXPERIENCE

University of Eastern Finland Designed data science minor studies curricula and data science+economics combined curriculum. Responsible professor for data science curriculum (jointly with Prof. Lauri Mehtätalo (statistics)). Designed and lectured a number of BSc and MSc level data science courses from 2018 onwards.
Saarland University Designed and lectured or co-lectured 9 MSc courses and three MSc seminars between 2011 and 2018

IMPECS Lecturer at Indo-German Max Planck Center for Computer Science (IMPECS) Winter School on Data Analytics, Indore, India, November 2013

ORGANISATION OF SCIENTIFIC MEETINGS

- November 2021 21st IEEE International Conference on Data Mining (ICDM). Program co-chair (with Prof. James Bailey, U. Melbourne). Expected approx. 1000 attendants
- 5 August 2019 Workshop on Tensor Methods for Emerging Data Science Challenges at KDD 2019, co-chair, approx. 30 attendants
- 19–23 September 2016 European Conference on Machine Learning and Principles and Practice of Knowledge Discovery from Databases (ECML-PKDD), Nectar track co-chair, approx. 600 attendants
- 15–19 September 2014 European Conference on Machine Learning and Principles and Practice of Knowledge Discovery from Databases (ECML-PKDD), Publicity co-chair, approx. 600 attendants

AWARDS AND MERITS

- 2016 Best data mining paper award, European Conference on Machine Learning and Principles and Practice of Knowledge Discovery (ECML-PKDD) 2016 to Sanjar Karaev and Pauli Miettinen: Cancer: Another algorithm for subtropical matrix factorization
- 2010 ACM SIGKDD Doctoral Dissertation award: one of four finalists, certificate of recognition
- 2008 Best Knowledge Discovery student paper award, European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD) 2008 to Pauli Miettinen: The Boolean column and column-row matrix decompositions
- 2006 Best paper award, European Conference on Principles and Practice of Knowledge Discovery in Databases (PKDD) 2006 to Pauli Miettinen, Taneli Mielikäinen, Aristides Gionis, Gautam Das, and Heikki Mannila: The discrete basis problem

MOST SIGNIFICANT OTHER ACADEMIC MERITS

- Thesis Evaluation Opponent for Aleksi Kallio (Aalto University, 2016), pre-examiner for Andreas Henelius (Aalto University, 2017), PhD committee member (Saarland University 2013, 2014, 2016, and 2019; Boston University 2015)
- Reviewer for Funding Applications Reviewed funding applications for Czech Science Foundation (GAČR), Flanders Research Foundation (FWO), and Croatian Science Foundation (HRZZ)
- Peer Reviewer Action editor, Data Mining and Knowledge Discovery, 2017—, member of the editorial board, Data Mining and Knowledge Discovery, 2015–2017, (senior) PC member for all leading data mining conferences (KDD, ICDM, AAAI, WSDM, SDM, ECML-PKDD)
- Committees Chair of Data Science Education Development Workgroup, University of Eastern Finland, 2018–2019; Member of the Steering Committee, Bioinformatics Centre, University of Eastern Finland, 2019—; Member of the Steering Committee, AI in Lawmaking project, Ministry of Transport and Communications, 2019; Member of Steering Committee, Utilizing Digital Data to Improve Working Conditions in Health Care, Academy of Finland research consortium, 2020–2022

Invited talks and tutorials

22 May 2019 keynote at IEEE International Symposium on Multiple-Value Logic, Fredericton, Canada; 14 June 2018 keynote at International Conference on Concept Lattices and Their Applications, Olomouc, Czech Republic; 27 September 2013 keynote at Tensor Methods for Machine Learning workshop at ECML-PKDD 2013, Prague, Czech Republic; other invited talks at Aalto University, Boston University, Inria Nancy – Grand-Est, NRC Palo Alto, Technische Universität Dresden, University of Antwerp, and University of Mannheim

Tutorials

An Introduction to Redescription Mining tutorial, jointly with Esther Galbrun, KDD '18, SDM '17, and ECML-PKDD '16; Decomposing Binary Matrices tutorial, ECML-PKDD '12