

# CURRICULUM VITAE

**Full name:** Petri Jukka Myllymäki

**Date and place of birth:** 7 February 1962, Mikkeli, Finland

**Current positions:**

- **Professor**, Department of Computer Science, University of Helsinki, Finland (2003-)
- **Director**, Helsinki Institute for Information Technology (HIIT, 2016-2025)
- **Vice-Director**, Finnish Center for Artificial Intelligence (FCAI, 2019-2026)
- **Director**, Helsinki Doctoral Education Network in ICT (HICT, 2014-)



**Education**

- 1999 Docent of Computer Science (University of Helsinki)
- 1995 Doctor of Philosophy (Dept. of Computer Science, Univ. of Helsinki).
- 1994 Licentiate in Philosophy (Dept. of Computer Science, Univ. of Helsinki).
- 1991 Master of Science (Dept. of Computer Science, Univ. of Helsinki).

**Summary of research merits.** Professor Petri Myllymäki has over 30 years of experience in research and teaching in the area of artificial intelligence. His research interests have been versatile, from regularization and optimization issues related to learning of Bayesian networks and other probabilistic models to clustering and visualization of data, information retrieval and other applications of machine learning methods. He has been an editorial board member, program chair, committee member and reviewer for numerous international scientific journals, conferences and organizations, and he has published over 150 scientific articles in venues including many top forums of his research area, such as JMLR, Machine Learning, ICML, IJCAI, AAAI, AISTATS, UAI, PGM, KDD and NIPS. His current Google Scholar h-index is 36 and he has over 6000 citations. He is an ELLIS Fellow at ELLIS Unit Helsinki, a member of the Finnish Academy of Technology and a member of the Finnish Academy of Science and Letters.

**Previous professional appointments.** 08/1999-07/2003: Academy Research Fellow, Academy of Finland; 08/1998-07/1999: Postdoctoral Researcher, Academy of Finland; 08/1997-12/1997: Research Scientist, University of Helsinki; 01/1997-12/2001: Assistant Professor, University of Helsinki; 08/1996-07/1997: Research Scientist, Academy of Finland; 08/1995-07/1996: Research Scientist, University of Helsinki; 03/1995-08/1995: Academic Visitor, University of London; 08/1992-02/1995: Research Scientist, University of Helsinki; 01/1992-07/1992: Assistant, University of Helsinki; 03/1991-12/1991: Research Assistant, University of Helsinki; 09/1988-02/1991: Research Scientist, University of Helsinki; 10/1987-08/1988: Research Assistant, University of Helsinki.

**Positions of trust.** Coordination Committee of the European Laboratory of Learning and Intelligence Systems ELLIS, chair (2020-); EU working group of the national AI strategy initiative "AI 4.0", member (2021-); Steering Group of the national AI Programme AuroraAI, member (2021-); Board of Directors of the National IT Center for Science (CSC), member (2021-); National Expert Group on AI and Digitalization, member (2020-); Nokia Foundation: member of the Board of Directors (2019-2021); The University of Helsinki Collegium: member (2018-2021); National Collaboration Forum for Scientific Computing (Tieteellisen laskennan yhteistyöfoorumi / Ministry of Education and Culture): chair (2016-2019); National Committee for Research Data Management: member (2015-); ESFRI Strategy Working Group for Data, Computing and Digital Research Infrastructures (SWG DIGIT): member (2017-); Steering group of the "Data and Computing 2021 (DL2021)" development programme of the Ministry of Education and Culture: vice-member (2017-2021); Working group "Digitalization and AI" in the Ministry of Education and Culture programme "Vision for higher education and research in 2030": chair (2018); Data to Intelligence, a 4-year, over 40 million Euro national public-private partnership programme with 50 companies and 20 universities and research organizations: academic coordinator (2012-2016); NSF Science and Technology Center for Science of Information: coordinator of collaboration activities (2014-); Helsinki Institute for Information Technology: member of the board of directors, representative of the staff (2002-2006), Programme Director, member of the steering group (2006-2015), Director, chair of the steering group (2016-2025); University of Helsinki, Faculty of Science: member of the Faculty Council (2014-2017); University of Helsinki, Doctoral School in Natural Sciences: member of the steering committee (2013-2017), Doctoral Programme in Computer Science, Director, chair of the steering group (2014-2017); Pascal EU Network of Excellence, member of the steering committee (2003-2013); Department of Computer Science, University of Helsinki: member of the steering committee (2007-2013); Helsinki Graduate School in Computer Science and Engineering: member of the board of directors (2004-2015), member of the management group (2006-2015), director (2011-2015); Kumpula science library: member of the steering committee (2007-2010); Ekahau Inc.: chairman of the board of directors (2000-2004); Bayes Information Technology Inc.: member of the board of directors (2000-2003), Cloud'N'Sci Inc., member of the board of directors (2010-); The Finnish Club in Helsinki, member (2012-).

**Journals and conferences: editorial and organizational positions.** Journal of Artificial Intelligence Research, member of the editorial board (2010-2013); Statistics and Computing, member of the editorial board (2010-2013); ENTROPY, An International Journal of Entropy and Information Studies: member of the editorial board (1998-2006); The EURASIP Journal on Bioinformatics and Systems Biology: member of the guest editorial board for a special issue on Information-Theoretic Methods for Bioinformatics (2006-2007); International Joint Conference on Artificial Intelligence, Senior Programme Committee member (2011,2013,2015); International Conference on Uncertainty in Artificial Intelligence (UAI), Senior Programme Committee member (2013,2014,2015); International Workshop on Information Theoretic Methods in Science and Engineering, Technical Co-Chair (2008-2015); Co-chair of Studia Stemmologica, a series of six international workshops on stemmatology (2010-2012); Program and Conference Chair, Probabilistic Graphical Models (PGM'2010); Program Chair, Uncertainty in Artificial Intelligence (UAI'2008); Programme Co-Chair, 2008 Workshop on Recent Breakthroughs in MDL Learning; Area Chair, European Conference on Artificial Intelligence (ECAI'08); Organizing Chair, International Workshop on Intelligent Information Access (IIIA-2006).

**Program committee memberships.** The 2015 International Symposium on Learning and Data Sciences (SLDS-2015), The European Workshop on Probabilistic Graphical Models (PGM-2012, PGM-2014); The International Joint Conference on Artificial Intelligence (IJCAI-2009), Workshop on Mobile User Improved Interaction (MUI2-2007), IJCAI Workshop on Cross-Lingual Information Access (CLIA-2007, CLIA-2008), International Workshop on Intelligent Information Access (IIIA-2006), Uncertainty in Artificial Intelligence (UAI'03, UAI'04, UAI'06, UAI'07), Artificial Intelligence and Statistics (AISTATS'05, AISTATS'07), International and Interdisciplinary Conference on Adaptive Knowledge Representation and Reasoning (AKRR'05), NIPS 2005 Workshop on Machine Learning for Implicit Feedback and User Modeling, International Conference on Applied Artificial Intelligence (ICAAI'2003), International Conference on Machine Learning (ICML'01), International Conference on Case-Based Reasoning (ICCBR'01), The International FLAIRS Conference, special track on uncertain reasoning (FLAIRS'98, FLAIRS'99, FLAIRS'00), Second Nordic Workshop on Genetic Algorithms and Their Applications (NWGA'96).

**Referee for professional journals and conferences.** IEEE Transactions on Information Theory, IEEE Transactions on Knowledge and Data Engineering, IEEE Transactions on Pattern Analysis and Machine Intelligence, IEEE Transactions on Wireless Communications, IEEE Transactions on Vehicular Technology, Statistics and Computing, Journal of the Royal Statistical Society, Journal of Machine Learning Research, Wireless Communications and Mobile Computing, Data Mining and Knowledge Discovery, Machine Learning, International Statistical Review, Applied Artificial Intelligence, Knowledge Engineering Review, International Journal on Very Large Data Bases, Canadian Journal of Fisheries and Aquatic Sciences, Acta Informatica, International Journal of Neural Systems, Nordic Journal of Computing, IEEE International Symposium on Information Theory (ISIT), IEEE Information Theory Workshop (ITW), International Conference on Case-Based Reasoning (ICCBR), European Conference on Computational Learning Theory (EuroCOLT), European Conference on Artificial Intelligence (ECAI), European Conference on Principles and Practice of Knowledge Discovery in Databases (PKDD), European Conference on Case-Based Reasoning (ECCBR), European Workshop on Case-Based Reasoning (EWCBR), Scandinavian Conference on Artificial Intelligence (SCAI), International Conference on Applications and Theory of Petri Nets.

**Societal impact.** Petri Myllymäki has been the responsible leader of numerous research projects funded by the Academy of Finland, EU, foundations and other public organizations, Business Finland (the Finnish Funding Agency for Technology and Innovation), or the industry directly. Petri Myllymäki is a co-founder of 5 start-ups: Etsimo, Ekahau, Sightful, Cloud'N'Sci and BayesIT, and he has also extensive experience in cooperation with the industry, and the co-operation has led to a number of fielded applications and patents. Dr. Myllymäki worked as a domain expert for the 2012 Millennium Award Committee, and as an expert for several committees of the Finnish Parliament. He has also worked as a scientific reviewer and expert evaluator for the European Research Council, the European Commission in the Sixth Framework Research Programme, Academy of Finland, The Finnish Work Environment Fund, INRIA (France), The Netherlands Organization for Scientific Research NWO, Austrian Science Fund FWF, National ICT Australia NICTA, University of Waikato (New Zealand), The Hong Kong University of Science and Technology, University of Electro-Communications (Japan), The King Saud University (Saudi-Arabia), University of Southampton (UK), Aalborg University (Denmark), The Swedish Foundation for Strategic Research, the Estonian Research Council, and the Japan Society for the Promotion of Science.