

## Curriculum vitae

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Lahti, Leo M. (born 2<sup>nd</sup> July, 1979 in Turku, Finland; Finnish national)  
ORCID: 0000-0001-5537-637X | Research website: [datascience.utu.fi](https://datascience.utu.fi)

### Academic Degrees

9/2015 Title of Docent (Applied Mathematics), University of Turku, FI  
12/2010 Doctor of Science (Tech.) Bioinformatics, Aalto University, FI  
12/2003 Master of Science (Tech.) Engineering Mathematics, Helsinki Univ. Technology, FI  
7/2008 Bachelor of Science (Political Science/Practical Philosophy), University of Helsinki FI

### Current position

7/2023- Professor (Data Science). Department of Computing, University of Turku, FI

### Previous positions and mobility

2019-2023 Assoc. Professor (Data Science). Dpt of Computing, University of Turku, FI  
2016-2021 (5 y) Academy of Finland Research Fellow, BE/FI  
2015-2018 (2.5 y) Visiting scholar. VIB/KU Leuven, BE  
2012-2015 (3 y) Academy of Finland Postdoc. Helsinki, FI & Wageningen University, NL  
2011-2012 (9 mo) Postdoc, Uni. Helsinki/FiDiPro/Microbial Food Safety C. of Excellence  
2010-2011 (3 mo) Visiting scholar. European Bioinformatics Institute EBI, UK  
2006-2010 (5y) DSc cand. Information & Comp. Sci., Aalto & Adaptive Informatics CoE, FI  
Shorter stays: 9-12/2005 (4 mo) Researcher. *University of Helsinki* (FI). Dpt. Computer Sci.;  
2004-2005 (1 year) Researcher. *Turku Center for Biotech.* (FI); 2003-2004 (1.5 years)  
Research assistant, Helsinki / TKK; *Neural Networks Center of Excellence*; 6-7/2002 (1.5 mo)  
Trainee. *Croatian Meteorological Institute, Zagreb* (CR). 2001 (3 mo) Research trainee.  
*CERN, Geneva* (SZ); 2000 (2 mo) volunteering teacher. Dakshinayan, Bihar, India.

### Funded projects

Total grants as PI/co-PI since 2012: 3Me+ including 2 x EU Horizon/RIA (2021-25; 2022-25; partner); 2 x Research Council of Finland (RCF) consortia (2022-26 PI; 2020-24 Co-PI); Strategic Research Council consortium (2022-25; co-PI); SPARC India (2019-23; Co-PI); RCF Research Fellow (2016-21; PI); RCF Postdoc (2012-15; PI) + Finnish foundations.

### Research output

Publications: 120+ with 5300+ WoS citations & h: 32 (e.g. *Science*, *Nat. Comm.*, *Nat. Meth.*)

Methods, tools & infrastructure: Coordinating int'l research software developer networks in microbiome bioinformatics ([microbiome.github.io](https://microbiome.github.io)) and open government data analytics ([ropengov.org](https://ropengov.org)), with 10,000+ downloads/month. The CONCOCT method has 950+ citations;

### Research leadership & supervision

Leading a team of ~15 members including 6 postdocs, 4 PhD researchers, 5 assistants, interns, and visitors. Chair for Computational Life Sciences (CompLifeSci) Turku Biocity Research Program 2022-2026. *Leadership training:* EMBO Research Leadership (4 days; 2017); *Basic studies in university pedagogy* (Turku 2021); *Teaching data science / ML* since 2006, organized 10+ international data science courses since 2015; responsible teacher in *ML & Algorithmics seminar* and *Statistical and Probabilistic Programming* course, University of Turku 2020-2022. Certified Carpentries instructor (<https://carpentries.org>).

## **Selected acknowledgments and awards**

2021 National Open Science award by the Federation of Finnish Learned Societies; 20+ team and individual awards for papers, talks, software, other activities (details on request).

## **Other key scientific or academic merits**

Research evaluation: 2019-2023 1 x professor evaluation (9 candidates for Uni. Vienna); 1 x Docentship evaluation (Helsinki); 2 x PhD thesis pre-examination (Helsinki); 5 PhD thesis opponent (Copenhagen, DE; Bergen, NO; Karolinska, SE; Wageningen, NL; Helsinki, FI); 2017-2022 Evaluating grant proposals for Italy, Poland & Wellcome Trust & European Science Foundation.

International expert groups 2024-2025 *Executive Committee* member & 2021- National delegate (Finland) for *Committee on Data (CODATA)* of the International Science Council (ISC); 2022-2025 R/Bioconductor global Community Advisory Board.

Editor: 2021- Associate editor: *Microbiome* journal (IF 15; comp/stat); 2021-2024 *ISME Journal* editorial board (IF 11); 2019- *arXiv* preprint moderator (applied statistics).

Research administration 2021-2024 National coordination on open science *vice chair* 2023 & *steering group member* 2021-2024 *Research Ethics Committee on Human Studies*, Turku; 2019-2023 WG leader and management committee member in COST Action *MLAmicrobiome*.

Organizing international scientific meetings: *Organizing committee*: 2022-2024 European Bioconductor Meeting; 2021 & 2023 Microbiome data science seminar, Pune, India; 2016 Philosophy and History of Open Science, Helsinki; *Program committee*: ICML 2022-2023; NeurIPS 2019-2023; ECML-PKDD 2017-2019; ICLR 2021-2022; IJCAI 2021-2023.

## **Scientific and societal impact**

Open science: 2021-2023 chairing the work group developing national policy on open access to research methods; 2022- International CODATA Data Ethics WG member; 2022-2023 Open Knowledge Finland ry. board; 2018 Digital Humanities in Nordics *Open Science chair*.

Research integrity: 2020- *Research integrity adviser* / Finnish National Board on Research Integrity, University of Turku.

Positions of trust 2022-2024 Forum for scientific computing and data management by Finnish Ministry of Education and Culture. 2021-2023 Finnish Ministry of Justice work group to renew law on public information; *Board member*: 2021-2023 Soc. for Computer Science; 2019- Turku City Data Oy; *Scientific advisor* in AI for Blueprint Genetics, *one of the hottest startups in Europe* by *Wired* 2018.

Dissemination: 4 international keynotes; 100+ invited academic presentations (40+ int'l); 100+ contributed or public lectures, interviews or posters in 20+ countries. Research covered by Guardian, Forbes, Le Figaro, New York Times, Huffington Post, Science Magazine, Tiede, HS, Turun Sanomat, Tietoviikko, Ilta-Sanomat.

**Research homepage**: <http://www.iki.fi/Leo.Lahti>