

Tommi Mäklin

Postdoctoral researcher

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Profile

PhD in computer science with research experience in computational and theoretical modelling of biological data. I do statistics, bacterial genomics, and bioinformatics software development.

Skills

- **Creative problem solving**

Skilled in identifying data-driven solutions quickly and developing them into finished products.

- **Data presentation**

Experience in presenting and publishing research data and results in international venues.

- **Project management**

Proven ability to plan and execute research and software development projects, both in teams and independently.

Technical

C++	git	Bioinformatics
R	LaTeX	Probabilistic modelling
Stan	Shell scripting	High-performance computing

Experience

University of Helsinki

Postdoctoral researcher

2023—ongoing

I work on developing and applying statistical methods for studying the link between ecology and epidemiology of opportunistic pathogens that are also a part of the healthy human gut microbiome.

Helsinki Institute for Information Technology

Doctoral researcher

2018—2022

Developed probabilistic models for determining the composition of a DNA sequencing data sample. Produced efficient open source implementations of the said models and distributed them. Published results in scientific journals and presented at international conferences.

Heldata oy

Part-time entrepreneur

2018—2022

Planned, organised, and hosted a 250-person data science networking and recruiting event in 2019 and 2021. Ran the day-to-day affairs of the business. Worked with customers to find bespoke solutions.

Stokastiko oy

Independent consultant

2016—2018

Designed and taught a 3-day statistics introductory course for the tax avoidance unit of the Finnish Tax Administration. Consulted small businesses and organisations in automating data analysis pipelines. Founded and operated a one-man company.

Volunteer experience

Shop steward

University of Helsinki

2023—2024

Offered guidance and support to union members in problematic situations at work. Negotiated with representatives of the employer. Developed communities of workers.
