

# 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.

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## 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.
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## Technical

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

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## 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.

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## 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.

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