

THOMAS LESLEY SITTER

Bioinformatician / Molecular Biologist

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EXPERIENCE

PostDoctoral Researcher

Max Planck Institute for Evolutionary Anthropology

Dec 2020 – current
Leipzig, DE

- Big-data mining sequencing data from archaeological remains to identify and analyze ancient microbial pathogens.
- Techniques: Python, Bash, R, SGE, SLURM, NGS, Phylogenomics.

Bioinformatician

Museum and Institute of Zoology

Apr 2020 – Nov 2020
Gdańsk, PL

- Validate a pilot study on (*Stenella coeruleoalba*) population exome dataset.
- Techniques: Python, Bash, R, pipeline development

PhD Microbiology / Bioinformatics

BPRC / AgResearch

Jun 2016 – Jul 2020
Lincoln, NZ

- Studying evolutionary divergence of the insect disease-encoding *Serratia* plasmid pADAP.
- Techniques: Python, Bash, R, NGS, Phylogenomics, Cloning, TEM, flow cytometry.

Intern Bioinformatician

ENZA Zaden

Mar 2015 – Aug 2015
Enkhuizen, NL

- Development of a QTL analysis pipeline for plant NGS.
- Techniques: Python, Bash, R, rQTL, Shiny, Linux servers

Intern Bioinformatician

Wageningen University & Research

Aug 2014 – Feb 2015
Wageningen, NL

- Annotating *de novo* tomato genomes and performing comparative genomics.
- Techniques: Perl, Python, Bash, R, Linux servers

FAVORITE QUOTE

"No man should escape our universities without knowing how little he knows."
– J. Robert Oppenheimer

LANGUAGES

English

Dutch

German

Dutch Sign Language



EDUCATION

PhD. in Bioinformatics / Microbiology

Lincoln University

Lincoln, New Zealand
Jun 2016 – July 2020

M.Sc. in Computer Science

Vrije Universiteit

Amsterdam, The Netherlands
Sept 2013 – June 2015

B.ASc. in Biochemistry

InHolland, NL

Amsterdam, The Netherlands
Sept 2006 – June 2012

INTERESTS

Genetics Microscopy Programming
Constructing electronics
Macro photography Bouldering
Kayakking Hiking Sculpting
Graphic design

PUBLICATION

Thesis

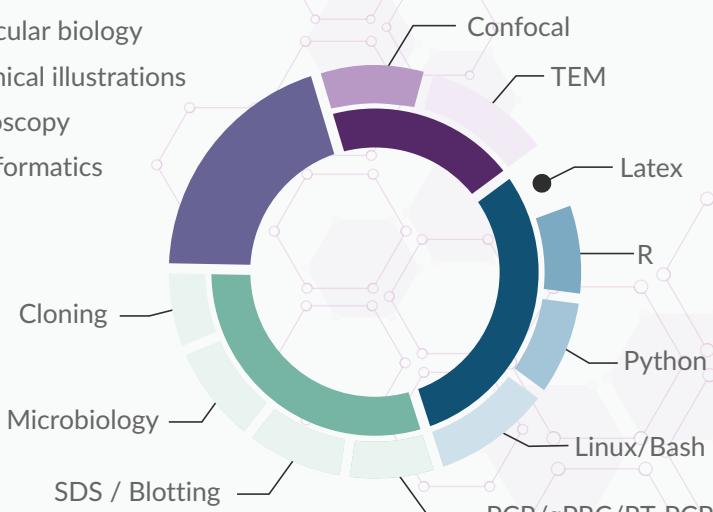
- Sitter, TL (2020). "Evolutionary divergence of the insect disease-encoding Serratia plasmid pADAP". Lincoln, NZ.

Manuscripts

- Barquera, R. et al. (2023). "TBA Historic pathogen emergence study". In: *draft*.
- Sitter, TL., M. Schoof, et al. (2023). "TBA novel Type I fimbria study." In: *draft*.
- Hurst, MR. et al. (2021). "Identification of Diverse Toxin Complex Clusters and an eCIS Variant in Serratia proteamaculans Pathovars of the New Zealand Grass Grub (*Costelytra Giveni*) and Manuka Beetle (*Pyronota Spp.*) Larvae". In: *Microbiology Spectrum* 9 (2), e0112321-e0112321.
- Sitter, TL., AL. Vaughan, et al. (2021). "Evolution of virulence in a novel family of transmissible mega-plasmids." In: *Environmental Microbiology* 23 (9), pp. 5289–5304.

EXPERIENCE

- Molecular biology
- Graphical illustrations
- Microscopy
- Bioinformatics



REFEREES

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