Hadrien Gourlé

PhD in Bioinformatics

Education

2016–2020 **PhD in Bioinformatics**, *SLU*, Uppsala, Assessing the Anthropogenic Impact on West Indian Coral Reefs.

2014–2015 **Master in Biology**, *SLU*, Uppsala, Comparative analysis of the *Mycoplasma my-coides* cluster.

2011–2014 Bachelor in Biotechnology, HeH, Mons, Belgium.

Experience

2020-current **Postdoctor**, *UU*, Uppsala, Al tools to predict human diseases using genetic data.

2015–2016 Research Assistant, SLU, Uppsala.

o Development of MetLab: a user-friendly interface for viral metagenomics.

Skills

Bioinformatics Genome Assembly/Annotation, Metagenomics, Transcriptomics, Comparative Genomics

Sysadmin Unix, Azure, GCP, Containers
 Programming Python, R, Bash, Rust, Nextflow
 Statistics GLMs, Bayesian models, ML
 Languages English, French, Swedish

Selected Publications

- [1] Hadrien Gourlé, Oskar Karlsson-Lindsjö, Juliette Hayer, and Erik Bongcam-Rudloff. Simulating illumina metagenomic data with InSilicoSeq. *Bioinformatics*, July 2018.
- [2] Rafael Hernández-de Diego, Etienne P de Villiers, Tomas Klingström, Hadrien Gourlé, Ana Conesa, and Erik Bongcam-Rudloff. The eBioKit, a stand-alone educational platform for bioinformatics. *PLoS Comput. Biol.*, 13(9):e1005616, September 2017.
- [3] Artemis S Louyakis, Hadrien Gourlé, Giorgio Casaburi, Rachelle M E Bonjawo, Alexandrea A Duscher, and Jamie S Foster. A year in the life of a thrombolite: comparative metatranscriptomics reveals dynamic metabolic changes over diel and seasonal cycles. *Environ. Microbiol.*, 20(2):842–861, February 2018.
- [4] Sammy Wambua, Hadrien Gourlé, Etienne de Villiers, Oskar Karlsson, Nina Wambiji, Angus Macdonald, Erik Bongcam-Rudloff, and Santie de Villiers. Molecular ecology of coral reef microorganisms in the western indian ocean coast of kenya. *bioRxiv*, 2020.

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Recent Grants

- o Google Cloud Research Credits: Surrounding the reef
- o Swedish Biodiversity Program: A dive into the microbial diversity of coral reefs

Teaching

- Software/Data Carpentry Instructor
- o Semester course in Bioinformatics, 10ECTS (Since 2015)
- \circ Most teaching materials available open source and available at hadrien-gourle.com/tutorials