Grégoire Siekaniec

Post doctoral position

June 18, 1995

Nantes, France

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https://gsiekaniec.github.io

https://github.com/gsiekaniec

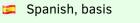
gregoire.siekaniec@gmail.com

About me

I am interested in all subjects dealing with omics data (regardless of the sequencing technology) and I am particularly interested in the treatment of microorganism data with comparative genomics and/or metagenomics.

Languages -

French, native English, fluent



Hard Skills

Comparative genomic

Metagenomic

Transcriptomic

Genome assembly

Biostatistic

♣ LaTeX

Programming language

Python Bash R **ASP** HTML, CSS C++ Java Javascript

Soft Skills

Autonomy

Adaptability

Team work

Mobility

Education

2018 – 2021 **Doctoral degree** Rennes university For further details see the Working Experience section

Master degree in Bioinformatics,

2016 - 2018specialized in molecular Claude Bernard Lyon 1 university

bioinformatics: methods and analysis

Rank: 4/20

Licence degree in Life Sciences: 2015-2016 Claude Bernard Lyon 1 university **Modeling and Computing of Life**

Rank: 4/25

Associate's degree (DUT) in

2013-2015 **Biological Engineering specialised** Auvergne university, Aurillac campus

in Bioinformatics Rank first year: 2/37, Rank second year: 2/27

Working Experience

2022 - 2023 **Postdoc in Bioinformatics** ICO Saint-Herblain

LBBE Lyon

Omics Data Science Unit of ICO

Processing of exomic data of metastatic breast cancer RH+/HER2and development of a software named LOngiTUdinal comparative genomics Study (LOTUS) allowing variants comparison in a longitudinal study.

Supervised by Pascal JEZEQUEL.

2018 - 2021 **PhD in Bioinformatics** INRAE and INRIA/IRISA Rennes

MicroBio team of INRAE and GenScale team of INRIA

Identification of bacterial strains, in particular strains of Streptococcus thermophilus via reads from MinION sequencing. Development of a bacterial strain identification software called Oxford nanopore Reads Identification (ORI). Associated publications: [Siekaniec et al. 2021] and [Roux et al. 2022] (see the Publications section).

Supervised by Jacques NICOLAS and Eric GUEDON.

Internship

2018 2nd master degree internship - 6 month INRIA/IRISA Rennes

GenScale team of INRIA

Quality verification and assembly enhancement of the apple aphid Dysaphis plantaginea obtained with Illumina 10X technology.

Supervised by Dominique LAVENIER and Fabrice LEGEAI.

2017 1st master degree internship - 4 month

Laboratory of Biometry and Evolutionary Biology

Participation in the de novo assembly of the Y chromosome of Silene latifolia using reads from Illumina, MinION and PacBio sequencing.

Supervised by Gabriel MARAIS and Cécile FRUCHARD.

2015 DUT degree internship - 4 month MIO Marseille, Luminy campus

Mediterranean Institute of Oceanography

Metagenomic analysis of sequencing data (pyrosequencing 454) from microbial communities of volcanic hot springs and hyperalkaline

hydrothermal systems.

Supervised by Marianne QUEMENEUR.

Lecturer

2018 – 2019	Contract teacher	Rennes university
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Licence Biology, python, 24h

2019 **Contract teacher** Rennes university

Master Bioinformatic, python, 19h

2019 Contract teacher Rennes university

Master Public Health, python, 21h

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Other skills

Sequencing technologies

- Nanopore
- Illumina
- **PacBio**
- **★** 10X
- Pyrosequencing 454

Computing cluster usage (SGE or Slurm)

Scientific Contributions

Publications

2022 The genomic basis of the Streptococcus thermophilus health-

promoting properties

Emeline Roux, Aurélie Nicolas, Florence Valence, Grégoire Siekaniec,

Victoria Chuat, Jacques Nicolas, Yves Le Loir and Eric Guédon

BMC Genomics, impact factor 4.56

2021 Identification of Isolated or Mixed Strains from Long Reads: A

Challenge met on Streptococcus thermophilus Using a MinION

Sequencer.

Grégoire Siekaniec, Emeline Roux, Téo Lemane, Eric Guédon and

Jacques Nicolas

Microbial Genomics, impact factor 4.65

Presentations

2020

Presentation of my doctoral work during an oral presentation in a

national conference specialized in combinatorics or text algorithmics

and their applications to bioinformatics.

JOBIM (Computational and Mathematical Biology Open Day) 2020

Poster presentation in a national bioinformatics conference.

2018 & 2021 NanoClub

Presentation of my doctoral work during an oral presentation in an

open day for users of Nanopore technologies.

Popularisation of science

2020 Science en Cour[t]s

Organization of the 2020 edition of the Science en Cour[t]s festival.

2019 Science en Cour[t]s

> Participation to Science en Cour[t]s, a short film festival, which offers PhD students the opportunity to make short films about their thesis

work.

Extra-Curricular Activities

Climbing for 4 years Climbing

Longboarding Longboarding for 2 years

Slackline Since 2016. I was a member of the BZ'Slack association (Rennes).

Guitar Self-taught since 2013.

Drawing Self-taught. I designed the 2020 poster of the Science en Cour[t]s

short film festival and the logo of the LOGIN association (Association

of young researchers at LS2N).

Travel to other countries and learn about their culture Travel