

GABIN DROUARD

Biostatistics, Bioinformatics & Data science

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WORK EXPERIENCE

★ Research intern

April 2021 - September 2021

Institute for Molecular Medicine Finland (FIMM) ~ Helsinki, Finland

- Multi-omics analysis in a cohort of Finnish twins. The objective is to determine the genetic traits of different natures (including methylation, transcriptomics, metabolomics, clinical, polygenic risk scores) to explain differences in blood pressure among twins. Construction of models aggregating these different data.

★ Junior Consultant

January 2021 - March 2021

Ensaï junior Consultant ~ Rennes, France

- Analysis of questionnaires relating to the reception of families in hospital structures in the context of newborns born prematurely. Main tools: uni-bivariate and multivariate analyses, clustering and cartography using R.

★ Research intern

June 2020 - September 2020

INSERM-NuMeCan ~ Rennes, France

- Application of statistical methods to high-dimensional transcriptomic data to study the phenotypic diversity of human hepatocellular carcinomas. Study of cell differentiation kinetics in order to qualify the state of differentiation of hepatocellular carcinomas. Creation of a differentiation score and clinical applications using cox modeling.

★ Freelance data analyst & mapmaker

August 2019 - September 2019

Apycare ~ Brittany, France

- Data analysis and production of automatically generated maps on R for the Regional Health Agency (ARS) of Brittany. Highlighting the movements of medical health teams in order to optimize intervention times.

★ Statistical intern

June 2019 - July 2019

INSEE ~ Limoges, France

- Statistical analyses and studies on public employment in the French overseas departments (DOM). Interest mainly focused on the health service, highlighting the specificities of the DOMs through numerous statistical methods and using visualization tools (R shiny, cartography).

★ Other jobs

- → Private tutor in mathematics and physics for years
- → Working student at the ENSAI library for 2 months : loan management, storing books etc.
- → Assembly line worker in a food factory for 1 month. Night work.

EDUCATION

★ **Master of Research [epidemiology] (MPCE)** 2020-2021
University of Rennes 1, Faculty of Medicine ~ Rennes, France

Master of Research in Public Health at the University of Rennes 1. I followed the academic programme "Modelling in Clinical Pharmacology and Epidemiology (MPCE)", specialising in epidemiology.

★ **Master of Science [biostatistics & applied mathematics]** 2018-2021
National School for Statistics & Information Analysis (ENSAI) ~ Rennes, France

The National School for Statistics & Information Analysis (ENSAI) is a Grande Ecole offering training with a strong focus on advanced statistical methods. Specialisation in mathematics applied to life sciences (biostatistics, omics, epidemiology, survival analysis, pharmacology, mixed models, etc.).

★ **Erasmus program [Master courses]** January 2020 - May 2020
Uppsala University ~ Uppsala, Sweden

30 ECTS credits obtained during an academic exchange at the University of Uppsala in Sweden. Master courses taken: Markov Chains & Brownian Motions (Grade 4), Time series (Grade 5), Computer-intensive statistics & Data Mining (Grade 4).

★ **Preparatory class for the Grandes Ecoles (CPGE) : MPSI & MP** 2016 - 2018
La Pérouse-Kerichen ~ Brest, France

The Preparatory Classes for the Grandes Ecoles (CPGE) provide intensive training for students in science (mathematics, physics, chemistry, computer science). Eligible for CCP, Petites Mines, TPE/EIVP.

★ **Lycée Brocéliande, baccalaureate with highest distinctions (TB & European)** until 2016

LANGUAGES

French: native language
English: professional ability

Spanish: Intermediate level

IT SKILLS

Programming R , Python , SAS , SQL, basic Jags
Visualization/Composition L^AT_EX, R-Shiny , Jupyter , Markdown

VOLUNTEER EXPERIENCE

- **Writer of comments based on French covid-19 data** at *Data Against Covid-19*. Participation in writing comments to explain the daily data of the French covid-19. The objective was to provide a clear and popularized summary of the situation in France during the quarantine period.
- **R manager & editor** at *Cluster ENSAI*. This club managed by students for students offers computer courses to students wishing to improve their knowledge or discover new programming languages.
- **Member of the student union** for a year (2019).
- **vice-president and co-creator** for one year in the *ETC association* (2016).

PROJECTS

To see some of my previous projects : [CLICK HERE](#)