

# GABIN DROUARD

Biostatistics, Bioinformatics & Data science

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## CARRIER OBJECTIVE

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To participate actively in health research activities by providing statistical expertise. My main objective is to obtain a PhD position in a research laboratory to conduct research linking omics data analysis and epidemiology.

## WORK EXPERIENCE

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★ **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

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★ **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

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**French:** native language

**Spanish:** Intermediate level

**English:** professional ability

## IT SKILLS

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**Programming**

R , Python , SAS , SQL, basic Jags

**Main visualization tools**

L<sup>A</sup>T<sub>E</sub>X, R-Shiny , Jupyter , Markdown

## VOLUNTEER EXPERIENCE

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- **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

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