

# >\_ BENJAMIN GILBERT

## RESEARCH OFFICER AT INSEE

@ benjamin.gilbert@insee.fr

+33 6 03 80 61 66

bglbrt.github.io

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## PROFESSIONAL EXPERIENCE

### Research Officer on Poverty and Social Inequality

**French National Institute of Statistics and Economic Studies (Insee)**

📅 2025 – present 📍 Montrouge, France

Conduction research studies on poverty in its various dimensions (monetary poverty, material and social deprivation, subjective poverty, persistence across different forms of poverty) and on income distribution and social inequality.

Contributing to the unit's methodological work and liaising with other Insee units and public administrations.

### Head of the Civil Service Expertise Unit

**French National Institute of Statistics and Economic Studies (Insee)**

📅 2023 – 2025 | 2 years 📍 Montrouge, France

Oversight of statistical production for structural data on employment and earnings of staff across the three branches of the French civil service; supervision of the release process for official data and annual results on headcount and pay in the public sector; organisation of working groups with data users.

Led a methodological overhaul of the production process: rewrote the data pipeline to integrate continuous integration and continuous delivery, automated processes using machine learning algorithms, set up a GitLab and trained the unit members to use it.

### Researcher Officer in deep learning applied to speech data

**French Ministry for the Armed Forces**

📅 2021 – 2022 | 6 months 📍 Paris, France

Domain adaptation research applied to automatic speech recognition (ASR). Research monitoring and literature review. Design and use of semi- and self-supervised deep learning architectures. Exploration of domain-adaptation methods for transcribing low-resource languages. Software development in Python and Torch. Final report available [here](#).

### Strategy consulting internship for public health bodies

**GovHe**

📅 2019 – 2020 | 6 months 📍 Paris, France

Internship in a strategy consulting firm. Facilitated discussions between health and political institutions to create a cross-border proton therapy hospital structure (EP/PT project). Python web-scraping to build tools to understand the challenges of medical evacuations in French Guiana. Contributed to the development of a platform to monitor available hospital beds amidst the start of the COVID-19 epidemic.

### Research internship in deep learning for genetic epidemiology

**National Health Service / Addenbrooke's Hospital / Strangeways Research Laboratory**

📅 2019 – 2020 | 6 months 📍 Cambridge, United Kingdom

Internship on estimating a predictive biomarker for cardiovascular diseases. Applied deep learning methods to DNA sequencing data. Assessed the robustness of the proposed approach. Wrote a literature review. Internship report available [here](#).

# ACADEMIC BACKGROUND

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## PhD in Sociology

**Sciences Po and Université Paris-Cité**

📅 2023 – present 📍 Paris, France

PhD in quantitative sociology under the supervision of Sylvain Parasie and Pedro Ramaciotti-Morales. Research on representations of poverty in the traditional French media sphere using computational methods, and on the measurement and uses of the different dimensions of poverty (monetary poverty, material and social deprivation, subjective poverty).

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## Master MVA – Mathematics / Vision / Learning

**École Normale Supérieure Paris-Saclay**

📅 2021 – 2022 📍 Paris, France

Research Master's. Courses in theoretical and applied mathematics for statistical learning and programming: statistical learning theory and machine learning theory, theory and practice of deep learning, computer vision algorithms, natural language and speech processing, sequence data methods, Bayesian statistics, optimal transport, reinforcement learning, and the law and ethics of artificial intelligence.

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## Master in Mathematics – Part III of the Mathematical Tripos

**University of Cambridge / Queens' College**

📅 2020 – 2021 📍 Cambridge, United Kingdom

Research Master's. Courses in mathematics and statistics: high-dimensional statistics, non-parametric statistics, robust statistics, mathematics of machine learning, functional data analysis, causal inference, applied mathematics for the social and health sciences, information theory and cryptography.

Dissertation on novel statistical methods for handling unmeasured confounding in high-dimensional data, jointly supervised by Professor Rajen Shah and Dr Qingyuan Zhao. Dissertation and code available [here](#).

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## Engineering Degree – Economist-Statistician

**École nationale de la statistique et de l'administration économique (ENSAE)**

📅 2017 – 2021 📍 Palaiseau, France

Bachelor's and Master's training. Courses in mathematics: algebra, functional analysis, probability theory, applied statistics; in programming and machine and deep learning; in microeconomics, macroeconomics, econometrics and sociology.

Dissertation on prisoners' interactions with individuals outside the prison system, in collaboration with the French Prison and Probation Service.

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## BSc in Economics and Econometrics

**Université Paris I Panthéon Sorbonne and Paris School of Economics (PSE)**

📅 2016 – 2017 📍 Paris, France

Introductory courses in social science research: sociology, economics, econometrics, political science, mathematics, statistics and probability.

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## CPGE B/L | Humanities and Social Sciences

**Lycée Janson de Sailly**

📅 2014 – 2017 📍 Paris, France

Preparatory classes for competitive entrance to the French grandes écoles in mathematics, economics, sociology, history, geography, literature, philosophy and modern languages.

## ACADEMIC ACTIVITIES

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### Research projects and grants

>\_ Awardee of the INA Lab research call 📅 2023

### Conferences and other academic events

>\_ International Conference on Computational Social Science – Denmark 📅 2023

>\_ Social Media and Democracy Symposium – United States 📅 2022

## TEACHING ACTIVITIES

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### Mathematics

**ENSAE / Insee Talents** 📅 2024 – 2026 🗣️ Tutor 🇫🇷 FR

Preparation for the mathematics paper in the Insee administrator competitive examination.

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### The Social Life of Data

**Sciences Po / Paris Campus** 📅 2023 – 2026 🗣️ Lecturer 🇫🇷 FR

Teaching diverse scholarly resources offering a historical, cross-cutting and reflexive view of how data are produced and interpreted.

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### Introduction to Sociology

**Sciences Po / Le Havre Campus** 📅 2022 – 2024 🗣️ Tutor 🇫🇷 EN

Teaching the classics of French, British and American sociology, organised around major themes and foundational texts. Organised methodological workshops.

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### Digital Culture

**Sciences Po / Reims Campus** 📅 2022 – 2023 🗣️ Tutor 🇫🇷 EN

Teaching the history and sociology of digital technologies.

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### Mathematics

**Lycée Janson-de-Sailly** 📅 2022 – 2023 🗣️ Oral examiner 🇫🇷 FR

Oral examinations in algebra, analysis, probability and statistics.

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## COMPUTING AND LANGUAGES

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### Programming

Python  
R



### Languages

English  
French



## VOLUNTEERING & INTERESTS

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### Volunteering

>\_ Pro bono private tuition to disadvantaged students – Entraide Scolaire Amicale (ESA)

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### Other interests & sports

>\_ Documentary films (short documentary filmmaking)

>\_ Long-distance hiking, mountaineering