Guillaume Gilles

Economist | Statistician | Quantitative Modelling

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Profile

I am an economist, statistician and Python developer working at the intersection of **economics, finance, mathematics and machine learning**. My experience spans regional economic analysis, financial-risk assessment, statistical modelling, time-series analysis and higher-education teaching.

I am particularly interested in using **econometrics, machine learning and deep learning** to study complex economic and financial systems. My approach combines economic reasoning, rigorous quantitative methods and clear communication, with an emphasis on models that are robust, interpretable and useful for decision-making.

Areas of expertise

Quantitative analysis	Economics and finance	Technology and communication
Statistical modelling	Business-cycle analysis	Python and R
Time-series analysis	Financial analysis	Data preparation and reporting
Machine learning	Corporate risk assessment	Reproducible workflows
Model evaluation	IAS/IFRS and French standards	Technical documentation
Econometrics	Financial strategy	Teaching and knowledge transfer

Professional experience

Statistician and Economist | Banque de France

2020-present

- Lead the collection and quality assurance of regional economic data used for business-cycle analysis.

- Model and analyse statistical series to identify trends, structural breaks and decision-relevant signals.
- Produce monthly economic reports and communicate quantitative findings to non-specialist audiences.

Adjunct Lecturer | INSEEC, ESSCA and ECE

2019-present, alongside my main position

- Teach financial analysis, mathematics and statistics from first-year undergraduate to Master's level.
- Supervise approximately ten final dissertations, covering research design, quantitative analysis and presentation.
- Translate technical concepts into practical frameworks for students from varied academic backgrounds.

Senior Financial Analyst | Banque de France

2011-2020

- Assessed the financial risk of major French companies using statutory and consolidated accounts.
- Produced and presented structured, evidence-based analyses for professional decision-makers.
- Applied IAS/IFRS frameworks and French accounting standards to the interpretation of consolidated financial statements.

Education and certifications

- **Data Scientist Certification**, ENSAE-ENSAI, CEPE, 2023
- **Master's Degree in MIAGE**, University of Bordeaux, 2022
- **Master's Degree in Finance**, IAE Bordeaux, 2019
- **Financial Analyst Certification**, ESSEC Business School, 2016
- **Bachelor's Degree in Management Sciences**, IAE Amiens, 2009

Research and technical interests

My current interests include:

- financial econometrics and macro-financial forecasting;
- nonlinear dynamics and complexity in economic systems;
- machine learning and deep learning for time-series data;
- model interpretability, robustness and validation;
- the interaction between economic expertise and data-driven methods.

I am especially motivated by interdisciplinary projects that connect methodological depth with concrete economic or financial questions.

Selected projects

I design and publish independent projects to deepen my technical practice and create reproducible, usable tools.

- **Personal website and technical portfolio:** development and publication of articles, analyses and technical projects on ggilles.dev.
- **Meal-booking web application:** functional design, project architecture and source-code publication.
- **Specification-driven development environment:** a dedicated workflow for developing software from explicit, testable specifications.

See my current work on GitHub.

What I bring

- More than a decade of experience connecting financial information with professional judgement.
- Hands-on responsibility for regional economic data, statistical analysis and recurring publications.
- A dual academic background in finance and business information systems.
- The ability to move from data preparation and modelling to interpretation, reporting and teaching.
- Professional fluency in French and English, with English at C1 level.

Open to conversations about quantitative economics, financial data science, applied research, teaching and interdisciplinary projects involving statistics, econometrics or machine learning.