

Cyril Verluise

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cverluise.github.io

Professional Experience

Senior Data Scientist

2022 - present

QuantumBlack, a McKinsey company, Paris (France)

- Led the development and growth of a suite of assets for heavy industries decarbonization (10+ clients)
- Contributed to power grid and energy generation device design optimization
- Contributed to the development of a remote sensing for competitive edge platform

2018-2021

Freelance, Paris (France)

(1-2 days per week)

- Contributed to the development of new products for clothing carbon footprint measurement (Carbonfact), patent analytics (IPwe) and oil market prediction (Kayrros)
- Managed end-to-end projects: client sourcing, client needs assessment, problem-solving, roadmap design, algorithm research and solution serving (API, model, dashboard)

2018 - 2021

PhD in Economics

Essays on Knowledge Creation and Diffusion, Paris School of Economics

- Leveraged Data Science to track technology and knowledge diffusion
- Led 3-year projects, managed and trained 6 research assistants
- Developed 3 open source projects (160+ GitHub stars and 15k+ downloads)

Supervisor: Ph. Aghion (Collège de France); Committee: L. Cassi (PSE), B. Hall (UC Berkeley), A. Jaffe (MIT), J. van Reenen (MIT & LSE)

Quantitative and Economic Researcher

2016 - 2017

Collège de France, Paris (France)

Contributed to research on the interactions between Innovation and the Tax System. Project supervised by Ph. Aghion (Collège de France) and S. Stantcheva (Harvard)

2015 (6 months)

Natixis, Frankfurt am Main (Germany)

Wrote economic policy reports and research papers in collaboration with S. Broyer (International Head of Economics)

Publications and Patents (selected)

2024

A new dataset to study a century of innovation in Europe and in the US. Research Policy 53(1). With A. Bergeaud

2023

Identifying technology clusters based on automated patent landscaping. PLoS ONE 18(12). With A. Bergeaud. Media coverage: *The Economist*, *CenterPiece*, *LSE blog*
Method to optimise heat integration in industry. US Patent 63403223 - Pending. With J. Sans, K. Somers, S. Barres. Media coverage: *McKinsey Sustainability*

Education

2017 - 2018

ENSAE - Paristech, Saclay (France)

Specialised Master in Data Science, *Highest Honors*

2015 - 2017

Paris School of Economics, Paris (France)

Master in Analysis and Policy in Economics, *High Honors*

2011 - 2015

HEC Paris School of Management, Jouy-en-Josas (France)

Msc in Management

Major in Quantitative Economics and Finance, taught at *Ecole Polytechnique*

Paris I Panthéon-Sorbonne, Paris (France)

2012 - 2013

Double Bachelor in Economics and Political Science (French 3-year Licence), *Honors*

2011 - 2012

Bachelor in Applied Mathematics (French 3-year Licence)

2009 - 2011

Lycée Henri IV, Paris (France)

Intensive 2-year training to French “Grandes Ecoles” competitive entrance exams

Programming Skills

Advanced: Python, Google Cloud Platform, Amazon Web Services, SQL, Git
Elementary: PySpark, R

Languages

French (native), English (fluent), German and Spanish (basic)