Nicolò **GIACOPELLI**

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EDUCATION

Since 2021 **ESSEC Business school & CentraleSupélec (Paris-Saclay)** Paris, France
Master's in Data Sciences & Business Analytics
GPA: 18/20
Core Courses: Statistics, Optimization, Machine Learning, Algorithms and Complexity, Databases, C++

2018-2021 **Bocconi University** Milan, Italy
Bachelor's degree in BESS - Economics and Social Sciences
Final Grade: 100/100 cum Laude
Core Courses: Mathematics, Methodology of Social Sciences, Cognitive Sciences, Computer Science

2014-2018 **Liceo Classico Cesare Beccaria** Milan, Italy
Humanities and Classical Studies Diploma with Math Empowerment
Final Grade: 100/100

PROFESSIONAL & RESEARCH EXPERIENCE

2023 **Machine Learning Researcher – Transvalor** Paris, France
(6 months) with Prof. Magoules and Prof. Bugiotti (CentraleSupélec)

- Implemented Graph Neural Networks surrogate model as alternative to established FEMs
- Approximated complex and much slower simulation engine for processes in the heavy industry
- Evaluated the generalization ability of model architectures on different mesh data

2022 **Research internship – Médiamétrie chair and Institut L. Bachelier (Paris-Saclay, Dauphine)** Paris, France
(3 months) Cross-Device Audience Measurement problem, with Professor O. Klopp and G. Lecué (Statistics)

- Implemented ML and DL models to approximate a Reach Function for the matrix of cookies
- Developed statistical models to challenge Google's formulation of the problem in a research team
- Applied matrix completion techniques and proposed alternatives in a collaborative environment

2022 **Research internship – ESSEC Business School** Paris, France
(3 months) The Equity Premium Puzzle, with Associate Professor E. Gourier (Finance)

- Implemented ML and DL models to predict market returns at different horizons
- Evaluated Level, Slope and Curve factors and macro variables for equity premium
- Provided empirical results for a paper on empirical asset pricing

LANGUAGES AND IT SKILLS

Languages: **Italian** mother tongue**, English** bilingual, **French** fluent (> 1 year abroad), **Spanish** fluent (> 3 months abroad)

IT skills: **Python** foundational knowledge of several libraries (Numpy, Pandas, Scipy, Pytorch), **C++** expert, **R** expert, **MongoDB** expert, **SQL** language expert, Apache Hadoop **MapReduce** and **Spark** expert, **Microsoft Office suite** expert, **LateX** expert, **SAS Viya** advanced, **Stata** advanced

Other(s): IELTS certification: 8, European Computer Driving License, GRE certification (164 Verbal Reasoning, 164 Quantitative Reasoning), Summer school at Escuela Superior de Español (Sagunto College, Valencia) in 2017

ACTIVITIES AND INTERESTS

2018 – 2021 Member of Build Sustainable Innovation (tech consultancy) Milan, Italy
Member of Rethinking Economics network (Italian group)

Other(s) Competed in Philosophy Olympic games in Milan on regional level after selections (2nd place, February 2017)
Various concerts with Dal Verme Theatre Orchestra 'Pomeriggi Musicali' (Milan, 1st violinist)
Competitions in basketball team at semi-professional level