Federico Chinello

Phone: +39 339 1227382 | Email: federico.chinello@studbocconi.it | GitHub profile
Birth date: 31/10/1998 | Nationality: Italian

EDUCATION

9/2023–current	**M.Sc. in Artificial Intelligence, Bocconi University	GPA: 30.1/30** *Cutting-edge Computer Science degree.*
9/2020–6/2022	**M.Sc. in Finance, Bocconi University	Final grade: 110/110 cum laude** Thesis: A look inside the "black box": investors' behaviour and price formation in the closing auction *Focus on Computational Finance and analysis of financial Big Data, deepened through internships.*
9/2017–6/2020	**B.Sc. in Economics and Finance, Bocconi University	Final grade: 110/110 cum laude** Thesis: Equilibrium price and volume discovery in a single price batch auction: an empirical analysis *Focus on Computational Finance and analysis of financial Big Data, deepened through internships.*
9/2012–7/2017	**Maturità classica (classical studies)** Liceo Galileo Galilei, Legnano, Italy

HONORS, AWARDS & SCHOLARSHIPS

2022	**Pre-Doctoral fellowship** Algorand Fintech Lab, Bocconi University
2017	**Merit-based scholarship** Fondazione Famiglia Legnanese

PROFESSIONAL EXPERIENCE

10/2025-present	**Research Fellow, AIRC Institute of Molecular Oncology (IFOM), Milan** *Beginning in October, I will join Ylli Doksani's lab, where I will develop computer vision and AI solutions to automate the analysis of microscopy images.*
9/2024-11/2024	**Research Assistant, Department of Computing Sciences, Bocconi University, Milan** Supervisor: Prof. F. M. Buffa *Contributed to a project focused on enabling robust and reproducible evaluation of Machine Learning models in biomedical sciences.*
7/2022–6/2023	**Pre-Doctoral Fellow, Algorand Fintech Lab, Bocconi University, Milan** Supervisor: Prof. B. Rindi *Developed robust Python pipelines for large-scale processing and analysis of blockchain data. Reviewed smart contract code and contributed to theoretical research and analysis.*
2/2020–9/2021	**Research Assistant, IGIER, Bocconi University, Milan** Supervisor: Prof. B. Rindi *During three internships, developed highly efficient Python and MATLAB pipelines to process tens of terabytes of high-frequency stock trading data (nanosecond resolution).*

PUBLICATIONS

Convolutional Set Transformer
Federico Chinello and Giacomo Boracchi, 2025. ArXiv pre-print | Code
We introduce a novel neural architecture designed to process image sets of arbitrary cardinality that are visually heterogeneous yet share high-level semantics (such as a common category, scene, or concept).

SOFTWARE DEVELOPMENT

cstmodels PyPI | Code
This package, available on PyPI, provides the reference implementation of the Convolutional Set Transformer (Chinello and Boracchi, 2025). It includes reusable Keras 3 layers for building CST architectures, and provides an easy interface to load and use the CST-15 model pre-trained on ImageNet.

Computer skills

C/C++ proficient | **Python** proficient | **SQL** proficient | **MATLAB** intermediate | **Solidity** intermediate | **LaTeX** proficient | **Git** proficient | **AFL (fuzzer)** basic | **GNU MathProg** basic | **GLPK** basic

Languages

Italian native | **English** proficient | **Spanish** intermediate | **Latin** | **Ancient Greek**

Volunteering

5/2022–current   **Politics Hub APS, Legnano (Milan)**
We organize talks with leaders in politics, business, and academic research. Board member in 2023.

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Milan - Italy, September 30, 2025