

Federico Chinello

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Birth date: 31/10/1998 | Nationality: Italian

EDUCATION

9/2023–current	M.Sc. in Artificial Intelligence, Bocconi University GPA: 30.1/30 <i>Cutting-edge Computer Science degree.</i>
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 <i>Focus on Computational Finance and analysis of financial Big Data, deepened through internships.</i>
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 <i>Focus on Computational Finance and analysis of financial Big Data, deepened through internships.</i>
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 <i>Developing computer vision and AI solutions to support biomedical research.</i>
6/2025–9/2025	Research Assistant, Department of Computing Sciences, Bocconi University, Milan Supervisors: Prof. F. M. Buffa and Ylli Doksani, PhD (IFOM PI) <i>Developed software to automate the analysis of electron microscope images of DNA structures.</i>
9/2024–11/2024	Research Assistant, Department of Computing Sciences, Bocconi University, Milan Supervisor: Prof. F. M. Buffa <i>Contributed to a project focused on enabling robust and reproducible evaluation of Machine Learning models in biomedical sciences.</i>
7/2022–6/2023	Pre-Doctoral Fellow, Algorand Fintech Lab, Bocconi University, Milan Supervisor: Prof. B. Rindi <i>Developed robust Python pipelines for large-scale processing and analysis of blockchain data. Reviewed smart contract code and contributed to theoretical research and analysis.</i>
2/2020–9/2021	Research Assistant, IGIER, Bocconi University, Milan Supervisor: Prof. B. Rindi <i>During three internships, developed highly efficient Python and MATLAB pipelines to process tens of terabytes of high-frequency stock trading data (nanosecond resolution).</i>

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 or concept).

SOFTWARE DEVELOPMENT

cstmodels Code | Docs | PyPI

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 | **SLURM** proficient | **Git** proficient
MATLAB intermediate | **Solidity** intermediate
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, October 23, 2025