

# Federico Chinello

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

## EDUCATION

---

9/2023–current	<b>M.Sc. in Artificial Intelligence, Bocconi University   GPA: 30.1/30</b> <i>Cutting-edge Computer Science degree.</i>
9/2020–6/2022	<b>M.Sc. in Finance, Bocconi University   Final grade: 110/110 cum laude</b> 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>B.Sc. in Economics and Finance, Bocconi University   Final grade: 110/110 cum laude</b> 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	<b>Maturità classica (classical studies)</b> Liceo Galileo Galilei, Legnano, Italy

## HONORS, AWARDS & SCHOLARSHIPS

---

2022	<b>Pre-Doctoral fellowship</b> Algorand Fintech Lab, Bocconi University
2017	<b>Merit-based scholarship</b> Fondazione Famiglia Legnanese

## PROFESSIONAL EXPERIENCE

---

10/2025–present	<b>Research Fellow, AIRC Institute of Molecular Oncology (IFOM), Milan</b> <i>Beginning in October, I will join Ylli Doksanı’s lab, where I will design and implement AI solutions to support biomedical research.</i>
6/2025–9/2025	<b>Research Assistant, Department of Computing Sciences, Bocconi University, Milan</b> Supervisors: Prof. F. M. Buffa and Ylli Doksanı, PhD (IFOM PI) <i>Developed software to automate the analysis of electron microscope images of DNA structures.</i>
9/2024–11/2024	<b>Research Assistant, Department of Computing Sciences, Bocconi University, Milan</b> 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	<b>Pre-Doctoral Fellow, Algorand Fintech Lab, Bocconi University, Milan</b> 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	<b>Research Assistant, IGIER, Bocconi University, Milan</b> 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 | **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.*

[I hereby authorize the use of my personal data in accordance to the GDPR 679/16]

Milan - Italy, October 14, 2025