Cristian Boldrin

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Curriculum Vitae (last update: Feb, 2025)

CURRENT POSITION

Ph.D. Student in Information Engineering at University of Padova, Italy.

– Research Topics: Data Mining, Machine Learning and Network Analytics.
– Advisor: Prof. Fabio Vandin.

EDUCATION

Ph.D. in Information Engineering.   Oct. 2023 – Current
University of Padova, Italy.

– Advisor: Prof. Fabio Vandin.

M.S. in Computer Engineering *(Laurea Magistrale)*, *summa cum laude*.   Sept. 2021 – Sept. 2023
University of Padova, Italy. GPA: 29.24 (over 30).

– Thesis Title: *"Counting Triangles in Graph Streams using Machine Learning Predictions"*.
– Advisor: Prof. Fabio Vandin.

B.S. in Computer Engineering *(Laurea Triennale)*, *110/110, summa cum laude*.   Sept. 2018 – July 2021
University of Padova, Italy. GPA: 28.36 (over 30).

– Thesis Title: *"Attitude Control of an Artificial Satellite"*, in Italian.
– Advisor: Prof. Sandro Zampieri.

High School Diploma in Information Technology, *96/100*.   Sept. 2013 – June 2018
I.T.I.S. Carlo Zuccante, Mestre (VE), Italy.

PUBLICATIONS

[1] **C. Boldrin** and F. Vandin, "Fast and accurate triangle counting in graph streams using predictions", *at 2024 IEEE International Conference on Data Mining* (**ICDM 2024**), 2024. (10,9 % acceptance rate for regular papers.)

THESIS

[1] **C. Boldrin** and F. Vandin, "Counting Triangles in Graph Streams using Machine Learning Predictions", *M.S. Thesis (2023)*. `https://thesis.unipd.it/handle/20.500.12608/50905`.

INVITED TALKS

• *Fast and Accurate Triangle Counting in Graph Streams Using Predictions*, International Workshop on Scalable Approaches to High Performance Computing (ScalPerf), Bertinoro, Italy. 26th September 2024

Teaching

- **Teaching Assistant** at University of Padova, Italy   Fall 2024
  Machine Learning - Master Degree Course.
  Laboratory Lectures, teaching on Machine Learning, Fundamental of Probability and Python Programming.
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  Machine Learning - Master Degree Course.
  Laboratory Lectures, teaching on Machine Learning, Fundamental of Probability and Python Programming.

Software Packages

- TONIC, a fast and efficient algorithm for counting triangles in (insertion-only and fully dynamic) graph streams, using predictions. `https://github.com/VandinLab/Tonic`.

Experience

Erasmus+ Project   May 2017 – June 2017
Valencia, Spain

- – Intensive Spanish course at AIP Language Institute.
- – IT Assistant and Web Developer at Codytel.

Move 2.0 Project   July 2016 – Aug. 2016
Portsmouth, England

- – English Skills and Job Opportunities in Web Marketing, Teaching Activity.

Skills

- **Programming Language:** Python, Java, C++, JavaScript
- **Data Structures and Algorithms:** Understanding and implementing efficient algorithms; testing, optimizing, debugging and profiling code
- **Version Control:** Proficiency with Git, GitHub, GitLab, Bitbucket
- **Front-End Development:** HTML, CSS, JavaScript frameworks
- **Operating Systems:** Familiarity with Linux/Unix systems, macOS, Windows
- **Containerization:** Singularity, Docker
- **Soft Skills:** Problem-solving, communication, flexibility, adaptability, team collaboration, time management, empathy, curiosity, creativity

Languages

- **Italian:** Native Speaker.
- **English:** Language Proficiency level B2.
- **Spanish:** Language Proficiency level A1.

Scholarships and Awards

- "Mille e una Lode" Award Winner in 2022, University of Padova.   2022
  Merit Awards worth €1,000.00 for the best students of the degree course.
- "Mille e una Lode" Award Winner in 2021, University of Padova.   2021
  Merit Awards worth €1,000.00 for the best students of the degree course.

Extracurricular Activities

- Blood Donor at *Associazione Volontari Italiana Sangue* (AVIS).   2023 – Current