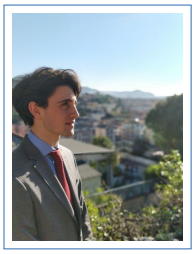

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Fabio Barbero

Résumé

Creative Problem Solver with experience in Data Science and Artificial Intelligence, aiming to help build a more sustainable and human future.

Education

Master in Data Science for Decision Making, *Maastricht University*, Maastricht. **2022–ongoing**

Bachelor in Data Science and Artificial Intelligence, *Maastricht University*, Maastricht, *Honours Student* (Cum Laude). **2018–2021**

Erasmus exchange, *IT University of Copenhagen*, Copenhagen. **2020–2021**

European Baccalaureate, *European School of Brussels 1*, Brussels, *89.36/100*. **2011–2018**

Experience

Work

AI intern, *Sportboost AI*, Internship as part of my Master's curriculum, Computer vision for extracting athlete's metrics. **2024–ongoing**

Software Developer, *Odoo*, Full time Python and Javascript developer. **2021–2022**

Student Ambassador, *Maastricht University*. **2019–2021**

Internship, *Seed Factory*, Website development, web communication. **2016**

Research

Research Student, *Maastricht University*, Developed a data-driven framework in Python to simulate maritime ports and their agents [3]. **2019–2020**

Associations

MSV Incognito, Head of Educational Committee. **2019–2020**

Comité des Elèves EEB1, Head of IT Committee. **2016–2018**

Projects

Isolating Cross-Platform Coordinated Information Campaigns, *Building Multi-Modal Embeddings on different social media platforms to identify such campaigns*, [2]. **2022–2022**

Minimum Coverage by Convex Polygons, *Maastricht University*, Working on the CG:SHOP 2023 competition to solve this hard Computational Geometry problem., `https://github.com/fbarbe00/CG-SHOP-2023`. **2022-2023**

Bachelor Thesis, *Digital Ludeme Project*, Agents for Fast Game Evaluation. **2020–2021**

Pyseidon - Maritime Port Simulation Framework. **2019–2021**

Mathematical Simulation of the Solar System, *Maastricht University*. **2019**

Graph Colouring, *Maastricht University*. **2018–2019**

Competitions

Google Hashcode, *online*, Second place in Maastricht Hub. **2021**

Google Hashcode, *online*, First place in Maastricht Hub. **2020**

LJE Belgium (Young Entrepreneurs), *Brussels*, Launched a 'Social box' startup for phones to make reunions more sociable. **2017**

European Schools Science Symposium, *European School of Brussels 1*, Luxembourg, Second place with LaciCloud, an FTP-based cloud service.. **2017**

Languages

Italian: Mother tongue — *Full proficiency*

French: Mother tongue — *Full proficiency*

English: C2 — *Professional working proficiency*

Spanish: B2 — *Listening:C1, Reading: C1, Speaking: B2, Writing: B1*

German: B1 — *Current language goal*

Computer skills

Proficient

Python: Pandas, NumPy, SciPy, Sci-kit, Matplotlib, PyTorch

Javascript: jQuery

Java: swing

Office: Office/LibreOffice suite, LaTeX, HTML, Markdown

Familiar

C/C++: parallelisation, optimisation

Bash: scripting

Linux: remote server access

Matlab/Octave: vectorisation

R: differential privacy, visualisation

SQL: MySQL, SQLite, MongoDB

Julia: mathematical programming

PHP: server setup

Interests

Music: Completed 10 years of classical piano, 5 of jazz piano, 5 of alto and barytone saxophone and played in multiple orchestras and bands. Lucky enough to have perfect pitch.

Open Source: Contributor of multiple Open Source project, such as Wikipedia and OpenStreetMap. Active participation and volunteering in events such as FOSDEM, and advocating for software freedom.

Healthy lifestyle: Meditate and do Yoga. I follow a mostly plant-based diet. I love bouldering, roundnet and running. Participated in multiple editions of the 20km of Brussels and other trails/races.

References

Professional and academic references available upon request

Publications

[1] Cameron Browne and Fabio Barbero. Heuristic sampling for fast plausible playouts. *IEEE CoG*, 2021. Available at `https://ieee-cog.org/2021/assets/papers/paper_313.pdf`.

[2] Fabio Barbero et al. Multi-modal embeddings for isolating cross-platform coordinated information campaigns on social media. *CoRR*, abs/2309.12764, 2023. Available at `https://cris.maastrichtuniversity.nl/ws/portalfiles/portal/142709356/CoG_2021_Heuristic_Sampling.pdf`.

[3] Paulius Skaisgiris, Walter Simoncini, Fabio Barbero, Amir Ahangi, and Rico Mockel. Pyseidon - a maritime port simulation framework. *ICCMS*, 2021. Available at `https://dl.acm.org/doi/10.1145/3474963.3474986`.

Note

More updated information can be found on my website, `https://fabiobarbero.eu`