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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, 2022–ongoing
Maastricht.
Bachelor in Data Science and Artificial Intelligence, Maastricht University, 2018–2021
Maastricht, *Honours Student* (Cum Laude).
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, 2024–ongoing
Computer vision for extracting athlete's metrics.
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 , <i>online</i> , Second place in Maastricht Hub.	2021
Google Hashcode , <i>online</i> , First place in Maastricht Hub.	2020
LJE Belgium (Young Entrepreneurs) , <i>Brussels</i> , Launched a 'Social box' startup for phones to make reunions more sociable.	2017
European Schools Science Symposium , <i>European School of Brussels 1</i> , Luxembourg, Second place with LaciCloud, an FTP-based cloud service..	2017

Languages

Italian : Mother tongue	<i>Full proficiency</i>
French : Mother tongue	<i>Full proficiency</i>
English : C2	<i>Professional working proficiency</i>
Spanish : B2	<i>Listening: C1, Reading: C1, Speaking: B2, Writing: B1</i>
German : B1	<i>Current language goal</i>

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 **R**: differential privacy, visualisation
Bash: scripting **SQL**: MySQL, SQLite, MongoDB
Linux: remote server access **Julia**: mathematical programming
Matlab/Octave: vectorisation **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 Open-StreetMap. 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>