Maddalena Torricelli

Curriculum Vitae et Studiorum

Contacts ✉

maddalena.torricelli@gmail.com

Digital Hub ⚲

maddalenatorricelli.me 🌐

Google Scholar 𝔾

Github

Languages 🅰🈁

IT (Native)

EN (Advanced)

ES, FR, DE (Basic)

Code Stack 💻

Python
Pandas, Numpy, Scipy, NetworkX, Gensim,
Matplotlib, Seaborn, Pytorch

R
ggplot2, caret, glmnet

HTML, CSS, Javascript
basic knowledge

LateX

DataViz
d3.js, Vega Lite, Google Data Studio

Working Experience 💼

2025 -	**Postdoctoral Research Associate**	Northeastern University - NetSI Hub, USA

Research topics: application of network science and data analytics to sports systems; leveraging complex systems theories and methods to address sports-related challenges.

2021 - 2023	**Postdoctoral Research Associate**	City University of London, UK

Research topics: polarization and misinformation spread on social media about climate change; quantifying social perception of climate change and natural disasters.

🖥 Teaching activity: Number Theory and Cryptography - Mathematics Dept.
📅 Events organization: Data Natives (2022-2023), Complexity 72h (2023).

Education 🎓

2017 - 2021	**PhD in Data Science and Computation**	Alma Mater Studiorum di Bologna, Italy

Thesis: Embedded representations of social interactions

2015 - 2017	**Master Degree in Physics of Complex Systems**	Università degli Studi di Torino, Italy

Thesis: Party cohesiveness in the Italian Parliament (1987-2013)
M.Sc.: 110/110 cum laude

Selected Publications 📖

2025, Feb	**Unveiling the drivers of active participation in social media discourse** Nature Scientific Reports	link
2025, Jan	**Temporal dynamics of goal scoring in soccer** arxiv	link
2024, May	**The role of interface design on prompt-mediated creativity in Generative AI** WEBSCI '24: Proceedings of the 16th ACM Web Science Conference	link
2023, Nov	**How does extreme weather impact the climate change discourse? Insights from the Twitter discussion on hurricanes** PLOS Climate	link
2020, Apr	**weg2vec: Event embedding for temporal networks** Nature Scientific Reports	link

A full list of publications is available on my Google Scholar profile.

Selected conferences, talks, projects and workshops 💬

2025, Mar	**MIT Sloan Sports Analytics Conference**	Boston (USA)

Attendance at the MIT Sloan Sports Analytics Conference - "Analytics in Motion" (07-08.03.2025).

2025, Mar	**MIT Sports Summit**	Boston (USA)

Attendance at the MIT Sports Summit - "From Innovation to Impact" (05.03.2025).

2024, Oct	**Northeastern University - NetSI Hub**	Boston (USA)

Talk: Network Analytics and Data Science Insights from Social Systems to Sports

2024, May	**WEBSCI Conference**	Stuttgart (DE)

Talk: The role of interface design on prompt-mediated creativity in Generative AI (24.05.2024).

2024, Mar	**MIT Sports Summit**	Boston (USA)

Attendance at the MIT Sports Summit - "Breaking Boundaries" (06.03.2024).

2023, Jun	**Sònar+D**	Barcelona (ES)

Participation in the EXPLAIN Project: analyzing lyrics and music of Sònar festival artists to detect patterns and track their evolution.

2020, Nov	**Big Dive (Data Visualization)**	Turin (IT)

Intensive course on effective visualization of data with d3.js and Vega Lite.