# Maddalena Torricelli

## Curriculum Vitae et Studiorum Working Experience



**Postdoctoral Research Associate** 

Northeastern University - NetSI Hub, USA

Sports analytics

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

Outreach and networking activities at major sports conferences (MIT Sloan Sports Analytics Conference (2025), MIT Sports Summit (2024,2025))

2021 - 2023 Postdoctoral Research Associate

City University of London, UK

Climate change on social media

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)

#### **Contacts ☑**

Education 🕿

2017 - 2021 PhD in Data Science and Computation

Alma Mater Studiorum di Bologna, Italy

Thesis: Embedded representations of social interactions

2015 - 2017 MSc 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

### Digital Hub 👌

maddalenatorricelli.me

maddalena.torricelli@gmail.com

Selected Publications 🖤

Google Scholar 3

2025, Feb Unveiling the drivers of active participation in social media discourse Nature Scientific Reports

Temporal dynamics of goal scoring in soccer 2025, Jan

arXiv:2501.18606

Github 🞧

The role of interface design on prompt-mediated creativity in Generative AI 2024, May

Proceedings of the 16th ACM Web Science Conference

WEBSCI '24:

**PLOS Climate** 

Languages A 2023, Nov

IT (Native)

EN (Advanced)

ES, FR, DE (Basic)

weg2vec: Event embedding for temporal networks 2020, Apr

Nature Scientific Reports

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

### Code Stack 💬

Matplotlib, Seaborn, Pytorch

#### Selected conferences, talks, projects and workshops Q

2024, Oct **Northeastern University - NetSI Hub** 

discussion on hurricanes

Boston, MA (USA)

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

How does extreme weather impact the climate change discourse? Insights from the Twitter

ggplot2, caret, glmnet

HTML, CSS, Javascript

Pandas, Numpy, Scipy, NetworkX, Gensim,

**WEBSCI Conference** 

Oral presentation: The role of interface design on prompt-mediated creativity in Generative AI

(24.05.2024).

2023, Oct **CCS Conference**  Salvador, Bahia (BR)

Oral presentation: How does extreme weather impact the climate change discourse? Insights from the Twitter discussion on hurricanes (20.10.2023).

LateX

2023, Jun Sònar+D Barcelona (ES)

Collaboration with the EXPLAIN Project: analyzing lyrics and music of Sonar festival artists to detect patterns and track their evolution.

DataViz d3.js, Vega Lite, Google Data Studio

basic knowledge

Burlington, VT (USA)

Oral presentation: Temporal network embedding for the estimation of spreading process outcome (29.5.2019).

Intensive course on effective visualization of data with d3.js and Vega Lite (Big Dive, Torino (IT), 2020)

2024. May

2019. Mav

**NetSci Conference**