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

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

Education 🕿

Università degli Studi di Torino, Italy

Thesis: Party cohesiveness in the Italian Parliament (1987-2013)

M.Sc.: 110/110 cum laude

Digital Hub 👌

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Selected Publications 🖤

Google Scholar 3

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

Languages A

Temporal dynamics of goal scoring in soccer

arXiv:2501.18606

Nature Scientific Reports

Github (?)

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

2023. Nov

2024, May

2023, Jun

2025. Jan

Proceedings of the 16th ACM Web Science Conference

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

WEBSCI '24:

PLOS Climate

IT (Native)

weg2vec: Event embedding for temporal networks 2020, Apr

discussion on hurricanes

WEBSCI Conference

(24.05.2024).

Nature Scientific Reports

EN (Advanced)

ES, FR, DE (Basic)

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

Selected conferences, talks, projects and workshops **Q Northeastern University - NetSI Hub** 2024. Oct

Code Stack 🖭

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

ggplot2, caret, glmnet

HTML, CSS, Javascript basic knowledge

LateX

2023, Oct

Boston, MA (USA)

Stuttgart (DE)

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).

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

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

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

Intensive course on effective visualization of data with d3.js and Vega Lite (Big Dive, Torino (IT), 2020) 2019, May **NetSci Conference**

Sònar+D

Burlington, VT (USA)

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