Cheick Tidiane **Ba**

✉ cheick.ba@outlook.com | 🌐 back7.github.io | in cheickba7 | 🎓 Cheick Ba | Orcid: 0000-0002-4035-7464 | Scopus Author ID: 57210572544

| Nationality: Italian | Languages: Italian, English, French |

Experience

- *Nov. 2024 – Present*: **Pometry Ltd.**, London. *Data Scientist.* Graph analytics, machine learning, data engineering, and visualisation at scale — applied to blockchain, financial networks, and complex graph-structured data.

- *Nov. 2023 – Nov. 2024*: **Queen Mary University of London**. *Postdoctoral Research Assistant.* Topic: cross-chain analysis using multilayer temporal networks with the Networks Research Group.

- *Nov. 2020 – Jan. 2024*: **University of Milan**, Milan. *PhD Researcher.* Topic: temporal multilayer networks, blockchain analysis, and machine learning on graphs. Led the research line on temporal networks and blockchains at the CONNETS Lab.

- *May 2020 – Nov. 2020*: **University of Milan**. *Research Assistant* Project VASARI; Topic: customer segmentation and risk analysis for an Italian financial group with the CONNETS Lab.

Skills

Programming	Python (Advanced), Rust (Intermediate), SQL, Java, PHP, Perl, Latex
Databases	Spark, MongoDB, Postgres, Oracle, MySql
Machine learning	Scikit-learn, PyTorch, Deep graph library, PyTorch geometric
Data mining and graph modeling	Raphtory, pandas, statsmodels, networkx, networkit, Gephi
Web Development	MongoDB, Express, REST API,React, AngularJS, HTML5/CSS/JavaScript
Languages	English (C2), Italian (native), French (native), Spanish (beginner), German (beginner)
Extracurricular	Basketball, hiking, swimming, travelling, language learning, reading

Education

- *26 Jan. 2024*: **University of Milan, Italy** – *PhD in Computer Science* - cum laude, *Doctor Europaeus*.
  - *May 2023 – Aug. 2023*: **Queen Mary University of London** – *Visiting PhD Student*
  - *May 2022 – Aug. 2022*: **CIRAD Montpellier** - *Visiting PhD Student*
- *11 Mar. 2020*: **University of Milan, Italy** - *Master's Degree in Computer Science*, mark: 110/110 cum laude.

Writing

I have contributed to 23 peer-reviewed publications, including international journals and conferences. Among them, 8 are in Q1 journals. A full list of my contributions is available on Google Scholar, DBLP, and Scopus.

Presentations

I have presented my research at over 20 main conferences on network science, complex systems, and machine learning, including the Mathematical Institute at Oxford, NetSci, CCS, and ECMLPKDD, WebSci. My talks have focused on topics such as temporal multilayer graph analysis, data mining, blockchain and decentralized systems.

Honors & Awards

- **2025**: **FOSS Award**, 20th International Workshop on Mining and Learning with Graphs – ECMLPKDD.

- **2023**: **Best Poster Award**, 20th International Workshop on Mining and Learning with Graphs – ECMLPKDD.

- **2021**: **"Runner-up for Best Paper" Award**, 2nd place out of 140 submissions at GoodIT '21 Conference.

Teaching

- **2022/2023**, **University of Pavia, Italy** – *Teaching Assistant*, Artificial Intelligence (12 ECTS), 24h
- **2021/2022, 2022/2023**, **University of Milan, Italy** – *Lecturer*, Social Media Mining (12 ECTS), 7h
- **2020/2021, 2021/2022**, **University of Milan, Italy** – *Teaching Assistant*, Social Network Analysis (6 ECTS), 20h