

## Manuel Dileo

Ph.D. Student, University of Milan, Milan, Italy  
dileomanuel0@gmail.com — [www.manuel-dileo.github.io](http://www.manuel-dileo.github.io)

Manuel Dileo received a master degree in computer science in 2022. He is currently a senior Ph.D. student at the Computer Science Department of the University of Milan, where he is also a tutor of machine learning courses. He has published works on machine learning for temporal networks, link prediction in online social networks, and temporal knowledge graphs.

## RESEARCH INTERESTS

---

Graph Machine Learning, Network Science, Graph Neural Networks, Knowledge Graphs, Temporal Networks

## RESEARCH EXPERIENCE

---

### Ph.D Student, Connets Lab.

*University of Milan*

October 2022 — Present  
Milan, Italy

- Research activities on temporal graph learning.
- Group leader of the research lab. on graph machine learning.
- Supervision and co-advisor of bachelor and master thesis.

### Visiting Researcher

*School of Informatics, University of Edinburgh*

June 2023 — August 2023  
Edinburgh, UK

- Research activities on temporal knowledge graphs.
- Research activities under the supervision of Dr. Pasquale Minervini.

### Research Fellow

*University of Milan*

May 2022 — October 2022  
Milan, Italy

- Research activities on heterogeneous graph learning.
- Research activities on biomedical knowledge graphs with Anacleto Lab.

## TEACHING EXPERIENCE

---

### Machine learning tutor

*University of Milan*

October 2023 — Present  
Milan, Italy

Tutor for the lab sessions of the course “Machine learning, artificial neural networks and deep learning”,  
Bachelor degree in Artificial Intelligence.

### Computer Programming tutor

*University of Milan*

October 2021 — September 2022  
Milan, Italy

Tutor for the lab sessions of the course “Computer Programming I”,  
Bachelor degree in Computer Science.

## EDUCATION

---

### University of Milan, Milan, Italy

Master of Science in Computer Science

Grade: 110 / 110 cum laude

Thesis Title: Link Prediction in Blockchain Online Social Networks with contextual information

October 2020 — April 2022

### University of Milan, Milan, Italy

Bachelor of Science in Computer Science

Grade: 110 / 110 cum laude

Thesis Title: Data-driven induction of fuzzy sets in forensics

October 2020 — April 2022

## ACADEMIC ACTIVITIES

---

- IRonGraph - Graph-Based Approaches in Information Retrieval, workshop @ ECIR 2024, PC member
- TGL - Temporal Graph Learning, workshop @ NeurIPS 2023, PC member
- LIMBO - Learning and Mining for Blockchain workshop @ ECML PKDD 2023, Web Chair
- AIN4GO - AI on Networks for Social Good, workshop @ GoodIt 2023, organizer

## GRANTS AND PROJECTS

---

- Winner of the January 2023 INDACO call for free dedicated high-performance computing power and data storage with a research proposal on "Graph Neural Networks for Knowledge Graphs".

## PUBLICATIONS

---

### Journal paper

- Ba, C. T., **Dileo, M.**, Galdeman, A., Zignani, M., Gaito, S. (2024). Analyzing User Migration in Blockchain Online Social Networks through Network Structure and Discussion Topics of Communities on Multilayer Networks. *Distrib. Ledger Technol.* <https://doi.org/10.1145/3640020>
- **Dileo, M.**, Zignani, M., Gaito, S. (2023). Temporal graph learning for dynamic link prediction with text in online social networks. *Machine Learning*. <https://doi.org/10.1007/s10994-023-06475-x>

### Conference paper (in proceedings)

- Ba, C. T., Galdeman, A., **Dileo, M.**, Zignani, M., Gaito, S. (2023). User Migration Prediction in Blockchain Socioeconomic Networks Using Graph Neural Networks. *Proceedings of the 2023 ACM Conference on Information Technology for Social Good*, 333–341. <https://doi.org/10.1145/3582515.3609552>
- Ba, C. T., Galdeman, A., **Dileo, M.**, Quadri, C., Zignani, M., Gaito, S. (2022). Web3 Social Platforms: Modeling, Mining and Evolution. *ItaDATA*, 3340, 168–179.
- **Dileo, M.**, Ba, C. T., Zignani, M., Gaito, S. (2022). Link Prediction with Text in Online Social Networks: The Role of Textual Content on High-Resolution Temporal Data. In P. Pascal D. Ienco (Eds.), *Discovery Science* (pp. 212–226). Springer Nature Switzerland.