

Current Associate Professor
University of Verona (Italy)

Areas of Expertise Computer Science, Digital Archives, Knowledge and Information Management, Graph Databases, Data Exploration, Big Data Analysis and Mining

Academic and Professional Activities

- 01/10/2023 — Associate Professor, Department of Foreign Languages and Literatures (University of Verona)
- 15/09/2021 — 30/09/2023 Assistant Professor/Adjunkt, Department of Computer Science (Aalborg University)
- 15/09/2019 — 14/09/2021 Postdoctoral Researcher, Example Driven Analytics of Open Knowledge Graphs Marie Skłodowska Curie IF fellowship, 2 Years (Aalborg University)
- 15/09/2018 — 14/09/2019 Postdoctoral Researcher, Exploratory Analytics for Linked Open Data Research contract, 1 Year (Aalborg University)
- 17/09/2012 — 15/09/2018 Teaching Assistant: Information Systems & Data Management Systems, BSc in Computer Science (University of Trento)

Education and Internships

- 01/10/2017 — 01/07/2018 Laboratory for Foundations of Computer Science, University of Edinburgh (U.K.) Visiting Researcher. Focus: Data management of semi-structured and graph data.
- 01/11/2012 — 27/04/2018 PhD in Computer Science, University of Trento – Dept. Computer Science Thesis: “Enabling Access to and Exploration of Information Graphs”
- 01/03/2014 — 01/06/2014 Cheriton School of Computer Science, University of Waterloo, Ontario (Canada) Visiting Researcher. Focus: Fitness of Use evaluation for social media data analytics.
- 01/06/2013 — 01/08/2013 HP Research Lab, Palo Alto, California (U.S.) Visiting Researcher. Focus: Coordination for distributed hybrid workload management.
- 01/09/2010 — 26/09/2012 M.Sc. in Computer Science, University of Trento – Dept. Computer Science Final Grade: 109/110
- 01/09/2006 — 17/03/2010 B.Sc. in Computer Science, University of Verona – Dept. Computer Science Final Grade: 110/110 cum Laude

Projects & Grants

- EU Projects “ARMADA: Reliable Conversational Domain-specific Data Exploration and Analysis”, **Doctoral Network (HORIZON-MSCA-2023-DN-01)**. Role: Coordinator. – Overall budget: € 3 289 140 – From 01-03-2025 to 28-02-2028.
- “DataGEMS: Data Discovery Platform with Generalized Exploratory, Management, and Search Capabilities”, **Research and Innovation Action (HORIZON-INFRA-2024-EOSC-01)**. Role: WP leader. – budget: € 772 625 – From 01-01-2025 to 31-12-2027.
- “EDAO: Example Driven Analytics of Open Knowledge Graphs”, **Marie Skłodowska-Curie Individual Fellowship**. Role: P.I. – Overall budget: € 207 312 – From 15-09-2019 to 14-09-2021.
- Grants ACM, SIGMOD 2014 Travel Grant – **Otto Mønsted Fund** Travel Grant

Professional Service

- Conference Organizer 27th International Workshop on Design, Optimization, Languages and Analytical Processing of Big Data (DOLAP), Co-located with EDBT 2025

3rd Workshop on Search, Exploration, and Analysis in Heterogeneous Datastores – Graph Edition (**SeaGraph**), Co-located with **ICDE 2024**

26th International Workshop on Design, Optimization, Languages and Analytical Processing of Big Data (**DOLAP**), Co-located with **EDBT 2024**

2nd Workshop on Search, Exploration, and Analysis in Heterogeneous Datastores (**SeaData**), Co-located with **VLDB 2021**

1st Workshop on Search, Exploration, and Analysis in Heterogeneous Datastores (**SeaData**), Co-located with **EDBT/ICDT 2020**

Journal Reviewer The International Journal on Very Large Data Bases (VLDB Journal), IEEE Transaction on Knowledge and Data Engineering (TKDE), ACM Transactions on Database Systems (TODS), Information Systems Journal, IEEE Transactions on Computers

PC Member KDD'19, EDBT'20, EDBT'23, EDBT'25, ICDE'20, SIGIR'20, ISWC'20, WSDM'20, VLDB'22, VLDB'23, VLDB'24

External Reviewer WWW'13, WWW'14, EDBT'14, EDBT'15, ICDE'15, VLDB'15, ICDE'16, EDBT'18, ICDE'18, EDBT'19, ICDE'19.

Supervision

Supervision total of 5 PhD students (1 graduated, 4 ongoing), 20+ MSc student theses (completed). Topics: data analytics, query optimization, recommender systems, graph analysis

Teaching

09/2025 — 12/2025 BSc Course	<i>Lecturer, Information Systems (University of Verona)</i> Bachelor Course in Languages, Literatures, and Digital Cultures
02/2025 — 06/2025 MSc Course	<i>Lecturer, Data and Knowledge Representation (University of Verona)</i> Master Course in Languages, Literatures, and Digital Cultures
02/2025 — 06/2025 MSc Course	<i>Lecturer, Computational Thinking (University of Verona)</i> Master Course in Languages, Literatures, and Digital Cultures
09/2024 — 12/2024 BSc Course	<i>Lecturer, Information Systems (University of Verona)</i> Bachelor Course in Languages, Literatures, and Digital Cultures
02/2024 — 06/2024 BSc Course	<i>Lecturer, Data and Knowledge Representation (University of Verona)</i> Master Course in Languages, Literatures, and Digital Cultures
02/2024 — 06/2024 MSc Course	<i>Lecturer, Computational Thinking (University of Verona)</i> Master Course in Languages, Literatures, and Digital Cultures
09/2023 — 12/2023 BSc Course	<i>Lecturer, Database Systems (Aalborg University)</i> Bachelor Course in Computer Science
09/2022 — 12/2022 BSc Course	<i>Lecturer, Database Systems (Aalborg University)</i> Bachelor Course in Computer Science
03/2022 — 05/2022 BSc Course	<i>Lecturer, Web Data Science (Aalborg University)</i> Bachelor Course in Computer Science
03/2021 — 05/2021 BSc Course	<i>Lecturer, Web Data Science (Aalborg University)</i> Bachelor Course in Computer Science
05/2019 — 05/2019 PhD Course	<i>Lecturer, Exploratory Data Analysis (Aalborg University)</i> PhD Course in Computer Science

Invited Lectures

2024	Data Science with Graphs (5th ACM Europe Summer School on Data Science)
2023	Graph Data Analysis & Exploration (11th European Big Data Management & Analytics Summer School - eBISS 2023)
2021	Panel on Data Discovery & Pricing (European Big Data Value Forum)
2019	Graph Data Management & Graph Database Evaluation (Aalborg University)
2018	Access & Exploration of Information Graphs (Aalborg University) Graph Data: Storage, Processing, and Mining (University of Trento)
2017	New Trends on Exploratory Methods for Data Analytics (University of Trento)

Selected Publications

- [1] “Transforming RDF Graphs to Property Graphs using Standardized Schemas”, Kashif Rabbani, **Matteo Lissandrini**, Katja Hose, *Companion of the 2025 International Conference on Management of Data, (SIGMOD/PODS) 2025*.
- [2] “Example-Driven Exploratory Analytics over Statistical Knowledge Graphs”, **Matteo Lissandrini**, Torben Bach Pedersen, Katja Hose, *Proceedings of the International Conference on Extending Database Technology, (EDBT) 2023*.
- [3] “A design space for RDF data representations”, Tomer Sagi*, **Matteo Lissandrini***, Torben Bach Pedersen, Katja Hose, *International Journal on Very Large Data Bases (VLDBJ) (2022) 27(1)*.
- [4] “Beyond Macrobenchmarks: Microbenchmark-based Graph Database Evaluation ”, **Matteo Lissandrini***, Martin Brugnara*, Yannis Velegrakis, *Proceedings of the VLDB Endowment (PVLDB) Journal, 12(4), 2018*.
- [5] “Unleashing the Power of Information Graphs”, **Matteo Lissandrini***, Davide Mottin*, Dimitra Papadimitriou, Themis Palpanas, Yannis Velegrakis, *ACM SIGMOD Record 43(4), 2014*.

* equal contribution