

Riccardo Tommasini

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Education

Politecnico di Milano
PhD, Cum Laude in Computer Science
◦ Springer PhD Thesis Award 2020

Nov 2015 – Oct 2019

Politecnico di Milano
Master Degree in Computer Science and Engineering

Sept 2012 – Sept 2015

Experience

Maître des Conférences (Associate Professor)
Institut National des Sciences Appliquées de Lyon, [LIRIS Lab](#), CNRS

Villeurbanne, France
Jan 2021 – present

Visiting Professor
TU Berlin, BIFOLD, DIMA
Quality Driven Windowing with Prof. Volker Markl

Berlin, Germany
Apr 2025 – June 2025

Visiting Professor
University of Tartu

Tartu, Estonia
Sept 2023 – present

Assistant Professor of Data Management
University of Tartu

Tartu, Estonia
Jan 2019 – Dec 2020

Acted as interim head of the [Data System Group](#) from April 2020 until February 2021

Official Trainer
Influx Data

NYC - Remote
2019 – 2021

Creation and Delivering of Flux Language Training

R&D Consultant
Starcounter s.r.l.

Sweden- Remote
Jan 2018 – June 2018

PhD Visiting Researcher
Free University of Bozen/Bolzano KRDB
Ontology-Based Data Access for Stream Processing Technologies, Prof Diego Calvanese

Bolzano - Trento, Italy
2017

PhD Visiting Researcher
University of Ghent, IDLab
Ontology-Based Event Processing with Prof Femke Ongenae and Pieter Bonte

Ghent, Belgium
2016

Affiliate Researcher
Wright State University, Kno.e.sis Center
Participation in kHealth Projects with Prof Amit Sheth

Dayton, Ohio, USA
May 2015 – Nov 2015

Projects

MediKG: MEDical Knowledge Graphs for multimodal learning
Financed by FIL, 7k€

France

2025 – present

MemeAtlas - Mapping the Semantic of Internet Memes
Financed by CNRS, 10k€

France

2022 – present

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| POLIFLOW - Multimodel Streaming Data Management Financed by ANR under JCJC project, 263k€. | <i>France</i> 2022 – present |
| Workload-Driven Schema Optimization for Analytical Knowledge Graph Financed by CNRS 9k€. | <i>France</i> 2022 – present |
| Rebooting trust in the X-ROAD network 12-month project financed Nordic Institute for Interoperability Solutions, 30k€. | <i>Tartu, Estonia</i> 2021 – 2022 |
| Towards Asynchronous yet Non-repudiable Communication in X-ROAD Financed by the Nordic Institute for Interoperability Solutions, 10000 euro. | <i>Tartu, Estonia</i> 2020 – 2021 |

Events Organization and Volunteering

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| International Conference on Web Engineering (2026): Program Co-Chair 26th edition in Lyon , France |
| Transforming Graph Data Workshop: Co-Organiser 1st and 2nd editions, colocated with EDBT 2025/2026 |
| International Conference on Distributed and Event-based Systems: General Co-Chair 18th edition in Lyon , Steering Committee Member (2025) |
| Stream Reasoning Workshop: Presenter, Organiser 13th edition in Lyon |
| Semantic Web Journal: Reviewer, Editorial Board Member (2025) |
| Transaction on Data and Knowledge : Reviewer, Editorial Board Member |
| PC Member: ESWC (since 2016), ISWC (since 2017), ICDE (since 2022), The Web Conf (2023/24, Semantic Web Track), ACM SIGMOD (2024) |

Supervision

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| Mauro Fama - Main Supervisor, Co-Supervised with Prof. Bonifati POLYFLOW: A Polyglot Stream Processing Framework | <i>INSA Lyon, LIRIS</i> July 2024 – present |
| Gianluca Rossi, Co-Supervised with Prof. Bonifati HyGraph: A Hybrid Graph and Time Series Data Management System | <i>Lyon 1, LIRIS</i> Sept 2024 – present |
| Samuele Langhi, Main Supervisor, Co-Supervised with Prof. Bonifati Towards Streaming Consistency Management | <i>Lyon 1, LIRIS</i> Sept 2021 – Apr 2025 |
| Kristo Raun, Co-Supervised with Ahmed Awad Adaptive Out-of-order Handling in Streaming Conformance Checking | <i>University of Tartu</i> Sept 2020 – Feb 2024 |
| Mohamed Ragab - Main Supervisor, Co-Supervised with Ahmed Awad Benchranking: Prescriptive Performance Analysis for Big Data Frameworks | <i>University of Tartu</i> Jan 2019 – Dec 2021 |

Visting PhD Students I supervised

Master and Bachelor Students

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| Master: Francesco Galbiati (2025), Fabio De Petro (2025), Alessandro Ferri (2024), Paolo Leidi (2024), Sebastien Labbe (2024), Mauro Fama (2023), Carlos Ramos (2022), Sadig Eyyazov (2021), Amedeo Pachera (2021), Samuele Langhi (2020), Philippe Scorsolini (2019), Mario Scrocca (2018), Yehia Abosedira (2018) |
| Bachelor: Allan Fang, Tarmo Pungas (2021), Tõnis Hlebnikov(2020), Fred Boldin(2019), Jonathan Karu (2019) |

Teaching (Subset)

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| Foundations of Data Engineering Lectures and practices, 2nd year Master's program in Computer Science, 30 students on avg, 48h. Ongoing. | <i>INSA Lyon</i> 2022-present |
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| Data Processing and Analytics | <i>Claud Bernard Lyon1</i> |
| Lectures and practices, 2nd year Master in Data Science, 20 students on avg, 11h. | <i>2022-2024</i> |
| Databases | <i>INSA Lyon/University of Tartu (remote) 2021-present</i> |
| Lectures and practices in the 3rd year of the Bachelor's program in Information Systems and Technologies (IST), 20 students on avg, 20h. | |
| Data Mining | <i>INSA Lyon 2021</i> |
| Lectures and practices, 3rd year Bachelor's program in IST, 20 students on avg, 20h. | |
| Advanced Databases | <i>University of Tartu 2021</i> |
| Lectures and lab teaching in the 2nd year of the Master's program in Data Science to 10 students (32h). | |
| Foundations of Data Engineering | <i>University of Tartu 2020-2025 (remote)</i> |
| Taught lectures and practices in the 1st year of the Master's program in Data Science to 85 students (92h). | |
| Big Data | <i>University of Tartu 2020-2025 (remote)</i> |
| Lectures and practices for the Master in Data Science, 20 students (48h). | |

Selected Publications (Full List)

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| Towards Hybrid Graphs: Unifying Property Graphs and Time Series | Mar 2025 |
| M. Ammar, C. Rost, R. Tommasini, S. Agarwal, A. Bonifati, P. Selmer, E. Kharlamov, E. Rahm | |
| 10.48786/EDBT.2025.79 (Proceedings 28th International Conference on Extending Database Technology) | |
| Languages and systems for RDF stream processing, a survey | Jan 2025 |
| Pieter Bonte, Christophe Callé, Olivier Curé, Haridimos Kondylakis, Riccardo Tommasini | |
| 10.1007/S00778-025-00927-7 (The VLDB Journal) | |
| Evaluating Continuous Queries with Inconsistency Annotations | Jan 2025 |
| Samuele Langhi, Prof. Bonifati, Riccardo Tommasini | |
| www.vldb.org/pvldb/vol18/p1321-langhi.pdf (Proceedings of the VLDB Endowment) | |
| Back to the Order: Partial orders in streaming conformance checking | Jan 2025 |
| Kristo Raun, Riccardo Tommasini, Ahmed Awad | |
| 10.1016/J.IS.2025.102566 (Information Systems) | |
| No Rule is Forever: Datalog Reasoning with Rule Amendments | May 2025 |
| Weiwei Xu, Riccardo Tommasini, Olivier Curé | |
| 10.1109/ICDE65448.2025.00215 (2025 IEEE 41st International Conference on Data Engineering) | |
| A holistic view over ontologies for Streaming Linked Data | Jan 2024 |
| Pieter Bonte, Femke Ongenae, Riccardo Tommasini | |
| 10.3233/SW-243570 (Semantic Web) | |
| Streaming linked data: from vision to practice | 01-2023 |
| Riccardo Tommasini, Pieter Bonte, Fabiano Spiga, Emanuele Della Valle | |
| https://link.springer.com/book/10.1007/978-3-031-15371-6 (Springer Nature) | |
| RSP4J: An API for RDF Stream Processing | June 2021 |
| Riccardo Tommasini, Pieter Bonte, Femke Ongenae, Emanuele Della Valle | |
| 10.1007/978-3-030-77385-4_34 (Lecture Notes in Computer Science (ESWC 2021)) | |
| D2IA: Stream Analytics on User-Defined Event Intervals | June 2019 |
| Ahmed Awad, Riccardo Tommasini, Mahmoud Kamel, Emanuele Della Valle, Sherif Sakr | |
| 10.1007/978-3-030-21290-2_22 (CAiSE 2019) | |