

Riccardo Tommasini

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Education

Politecnico di Milano Nov 2015 – Oct 2019
PhD, Cum Laude in Computer Science
◦ Springer PhD Thesis Award 2020

Politecnico di Milano Sept 2012 – Sept 2015
Master Degree in Computer Science and Engineering

Experience

Maître des Conférences (Associate Professor) Villeurbanne, France
Institut National des Sciences Appliquées de Lyon, [LIRIS Lab](#), CNRS Jan 2021 – present

Visiting Professor Berlin, Germany
TU Berlin, BIFOLD, DIMA Apr 2025 – June 2025
Quality Driven Windowing with Prof. Volker Markl

Visiting Professor Tartu, Estonia
University of Tartu Sept 2023 – present

Assistant Professor of Data Management Tartu, Estonia
University of Tartu Jan 2019 – Dec 2020
Acted as interim head of the [Data System Group](#) from April 2020 until February 2021

Official Trainer NYC - Remote
Influx Data 2019 – 2021
Creation and Delivering of Flux Language Training

R&D Consultant Sweden- Remote
Starcouter s.r.l. Jan 2018 – June 2018

PhD Visiting Researcher Bolzano - Trento, Italy
Free University of Bozen/Bolzano KRDB 2017
Ontology-Based Data Access for Stream Processing Technologies, Prof Diego Calvanese

PhD Visiting Researcher Ghent, Belgium
University of Ghent, IDLab 2016
Ontology-Based Event Processing with Prof Femke Ongenae and Pieter Bonte

Affiliate Researcher Dayton, Ohio, USA
Wright State University, Kno.e.sis Center May 2015 – Nov 2015
Participation in kHealth Projects with Prof Amit Sheth

Projects

MediKG: MEDiCal Knowledge Graphs for multimodal learning France
Financed by FIL, 7k€ 2025 – present

MemeAtlas - Mapping the Semantic of Internet Memes France
Financed by CNRS, 10k€ 2022 – present

POLIFLOW - Multimodel Streaming Data Management

Financed by ANR under JCJC project, 263k€.

France

2022 – present

Workload-Driven Schema Optimization for Analytical Knowledge Graph

Financed by CNRS 9k€.

France

2022 – present

Rebooting trust in the X-ROAD network

12-month project financed Nordic Institute for Interoperability Solutions, 30k€.

Tartu, Estonia

2021 – 2022

Towards Asynchronous yet Non-repudiable Communication in X-ROAD

Financed by the Nordic Institute for Interoperability Solutions, 10000 euro.

Tartu, Estonia

2020 – 2021

Events Organization and Volunteering

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

Mauro Fama - Main Supervisor, Co-Supervised with Prof. Bonifati

POLYFLOW: A Polyglot Stream Processing Framework

INSA Lyon, LIRIS

July 2024 – present

Gianluca Rossi, Co-Supervised with Prof. Bonifati

HyGraph: A Hybrid Graph and Time Series Data Management System

Lyon 1, LIRIS

Sept 2024 – present

Samuele Langhi, Main Supervisor, Co-Supervised with Prof. Bonifati

Towards Streaming Consistency Management

Lyon 1, LIRIS

Sept 2021 – Apr 2025

Kristo Raun, Co-Supervised with Ahmed Awad

Adaptive Out-of-order Handling in Streaming Conformance Checking

University of Tartu

Sept 2020 – Feb 2024

Mohamed Ragab - Main Supervisor, Co-Supervised with Ahmed Awad

Benchranking: Prescriptive Performance Analysis for Big Data Frameworks

University of Tartu

Jan 2019 – Dec 2021

Visting PhD Students I supervised

Master and Bachelor Students

Master: Francesco Galbiati (2025), Fabio De Petro (2025), Alessandro Ferri (2024), Paolo Leidi (2024), Sebastien Labbe (2024), Mauro Fama (2023), Carlos Ramos (2022), Sadig Eyvazov (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)

Foundations of Data Engineering

Lectures and practices, 2nd year Master's program in Computer Science,t 30 students on avg, 48h. Ongoing.

INSA Lyon

2022-present

Data Processing and Analytics

Lectures and practices, 2nd year Master in Data Science, 20 students on avg, 11h.

Claud Bernard Lyon1

2022-2024

Databases

Lectures and practices in the 3rd year of the Bachelor's program in Information Systems and Technologies (IST), 20 students on avg, 20h.

INSA Lyon/University of

Tartu (remote)

2021-present

Data Mining

Lectures and practices, 3rd year Bachelor's program in IST, 20 students on avg, 20h.

INSA Lyon

2021

Advanced Databases

Lectures and lab teaching in the 2nd year of the Master's program in Data Science to 10 students (32h).

University of Tartu

2021

Foundations of Data Engineering

Taught lectures and practices in the 1st year of the Master's program in Data Science to 85 students (92h).

University of Tartu

2020-2025 (remote)

Big Data

Lectures and practices for the Master in Data Science, 20 students (48h).

University of Tartu

2020-2025 (remote)

Selected Publications (Full List)

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](https://doi.org/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](https://doi.org/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](https://doi.org/10.1016/J.IS.2025.102566) (Information Systems)

No Rule is Forever: Datalog Reasoning with Rule Amendments

May 2025

Weiqin Xu, Riccardo Tommasini, Olivier Curé

[10.1109/ICDE65448.2025.00215](https://doi.org/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 Ongenaë, Riccardo Tommasini

[10.3233/SW-243570](https://doi.org/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 Ongenaë, Emanuele Della Valle

[10.1007/978-3-030-77385-4_34](https://doi.org/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](https://doi.org/10.1007/978-3-030-21290-2_22) (CAiSE 2019)