

Martina Boschi

PhD Candidate

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💡 Research Interests

My research focuses on **network science**, particularly on **statistical modeling of time-stamped relational data**. I specialize in developing methodological advances for relational event models.

💼 Academic Positions

- Dec, 2022 – **PhD candidate in computational science**, *Institute of Computing, Università della Svizzera italiana*, Lugano, Switzerland, Advisor: Prof. **Ernst C. Wit**.
- present
 - Network science,
 - Relational event models.
- ([personal webpage](#))
- 2023 – **Teaching assistant**, *Faculty of Informatics, Università della Svizzera italiana*, Lugano, Switzerland.
- present
 - Designing and delivering practical tutorials,
 - Student assessment and supervision.
- ([personal webpage](#))
- Jan, 2025 – **Visiting PhD student**, *Mathematics and Statistics, McGill University*, Montreal, Quebec, Canada,
- May, 2025 Advisor: Prof. **Eric D. Kolaczyk**.
- Graph sampling techniques.
- Feb, 2022 – **Visiting research trainee**, *Institute of Computing, Università della Svizzera italiana*, Lugano,
- Jun, 2022 Switzerland, Advisor: Prof. **Ernst C. Wit**.
- Network science,
 - Relational event models.
- 2020 – 2023 **Teaching assistant**, *Department of Statistical Sciences, Alma Mater Studiorum - University of Bologna*, Bologna, Italy.
- Designing and delivering practical tutorials,
 - Student assessment and supervision,
 - Tutoring for students with disabilities.
- Jul, 2021 – **Research trainee**, *Department of Statistical Sciences, Alma Mater Studiorum - University of Bologna*, Bologna, Italy, Advisor: Prof. **Daniele Ritelli**.
- Computer algebra in differential equation treatment,
 - Nonlinear oscillators via Chebyshev quintic approximations.

📣 Academic Service and Outreach

- Sep, 2024 – **Student Mentor, BSc in Data Science**, *Faculty of Informatics, Università della Svizzera italiana*, Lugano, Switzerland.
- present
 - Organizing regular meetings with mentees to ensure their progress,
 - Helping students address questions and difficulties.

Oct, 2023 – **Contributor to Outreach and Promotion, BSc in Data Science, Faculty of Informatics, present** Università della Svizzera italiana, Lugano, Switzerland.

- Developing materials for university orientation days,
- Preparing informational resources for incoming students,
- Organizing and participating in high school outreach events to promote engagement with data science.

Industry Positions

2019–2020 **Data Analyst (Occasional collaborator and internship trainee)**, Notari Ricerche, Casalecchio di Reno, Bologna, Italy.

- Market analysis,
- Data collection.

Education

2022 – 2024 **PhD qualifying exams**, Università della Svizzera italiana, Lugano, Switzerland.

2020 – 2022 **MSc in Statistical Sciences - Curriculum: Data Science**, Department of Statistical Sciences, Alma Mater Studiorum - University of Bologna, Bologna, Italy.
Final grade: 110/110 cum Laude

Feb, 2022 – **Swiss-European Mobility Programme**, Institute of Computing, Università della Svizzera italiana, Jun, 2022 Lugano, Switzerland.

Oct, 2021 **Teaching in secondary schools - 24 CFUs**, Alma Mater Studiorum - University of Bologna, Bologna, Italy.

- Basic anthropological and psycho-pedagogical disciplines,
- Teaching methodologies and technologies.

Sep, 2019 – **Erasmus+**, Université Paris 2 Panthéon Assas, Paris, France.
Feb, 2020

2017 – 2020 **BSc in Scienze Statistiche - Curriculum: Economia e Impresa**, Department of Statistical Sciences, Alma Mater Studiorum - University of Bologna, Bologna, Italy.
Final grade: 110/110 cum Laude

Teaching

Guest Lectures

Fall, 2025 **Analysis of Social Networks, Beyond Linearity and Time-Homogeneity: Flexible Formulations for Relational (Hyper) Event Modeling**, Faculty of Informatics, Università della Svizzera italiana, Lugano, Switzerland.
Course Directors: Federica Bianchi, Alessandro Lomi

Teaching Assistantship

Fall, 2025 **Introduction to Data Science (BSc)**, Faculty of Informatics, Università della Svizzera italiana, Lugano, Switzerland.
Course Director: Ernst C. Wit

Fall, 2023, Fall, 2024 **Probability & Statistics (BSc)**, Faculty of Informatics, Università della Svizzera italiana, Lugano, Switzerland.
Course Directors: Francisco J. Richter Mendoza, Ernst C. Wit

Spring, 2023 **Graph Deep Learning (MSc)**, Faculty of Informatics, Università della Svizzera italiana, Lugano, Switzerland.
Course Director: Cesare Alippi

- Spring, 2023 **Linear Models (BSc)**, *Department of Statistical Sciences*, Alma Mater Studiorum – Università di Bologna, Bologna, Italy.
Course Director: Angela Montanari
- 2020 – 2022 **Tutoring for students with disabilities**, *Department of Statistical Sciences*, Alma Mater Studiorum – Università di Bologna, Bologna, Italy.
Thesis Co-supervision
- Sep, 2023 **Jahmaira Archbold**, *Master Thesis: Smooth Relational Event Models: Analysis of Alien Fish Invasions via Case-Control Sampling Inference*, Faculty of Informatics, Università della Svizzera italiana.
Lugano, Switzerland

Funding

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- 2025 **NGI Enrichers Transatlantic**, *Next Generation Internet*.
Amount: CHF 15200

Awards

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- 2022 **Member of the winning team**, *SAS Curiosity Cup*, Category: Data Analysis.
Team: Martina Boschi, Sara Rinaldini
- 2022, 2020, 2019 **University Grant for Best Performing Students**, Alma Mater Studiorum – Università di Bologna, Bologna, Italy.

Publications

Journal Articles

- 2026 Martina Boschi and Ernst C Wit. Goodness of fit in relational event models. *Statistics and Computing*, volume 36, page 4. Springer, 2026.
- 2025 Martina Boschi, Rūta Juozaitienė, and Ernst C Wit. Mixed additive modelling of global alien species co-invasions of plants and insects. *Journal of the Royal Statistical Society Series C: Applied Statistics*, page qlaf034. Oxford University Press UK, 2025.
- 2024 Martina Boschi, Daniele Ritelli, and Giulia Spaletta. Exact time–integral inversion via čebyšëv quintic approximations for nonlinear oscillators. *Journal of Mathematical Analysis and Applications*, volume 533, page 128015. Elsevier, 2024.

Preprints

- 2025 Martina Boschi, Jürgen Lerner, and Ernst C Wit. Beyond linearity and time-homogeneity: relational hyper event models with time-varying non-linear effects. *arXiv preprint arXiv:2509.05289*, 2025.

Talks

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- Dec, 2025 **Duisterbelt**, Zurich, Switzerland.
Oral presentation & Flash presentation
- Nov, 2025 **Swiss Statistics Meeting**, Geneva, Switzerland.
Oral presentation
- Oct, 2025 **ARS'25: Tenth International Workshop on Social Network Analysis**, Naples, Italy.
Oral presentation
- Oct, 2025 **International Day Of Women in Statistics and Data Science**, Online.
Oral presentation

- Jun, 2025 **Sunbelt Conference**, Paris, France.
Workshop instructor & Oral presentation
- Sep, 2024 **Innovation in dynamic network modelling**, Lugano, Switzerland.
Workshop co-organizer & Oral Presentation
- Aug, 2024 **Bernoulli-IMS 2024 World Congress**, Bochum, Germany.
Oral presentation
- Jul, 2024 **International Workshop on Statistical Modelling**, Durham, United Kingdom.
Oral presentation
- Jun, 2024 **Sunbelt Conference**, Edinburgh, United Kingdom.
Workshop instructor & Oral presentation
- Sep, 2023 **CEN 2023: 5th Conference of the Central European Network**, Basel, Switzerland.
Poster presentation
- Jun, 2023 **Bernoulli Society workshop on Sparse Inference of Complex Networks**, Lugano, Switzerland.
Poster presentation
- May, 2023 **ARS'23: Ninth International Workshop on Social Network Analysis**, Ischia, Italy.
Oral presentation

Attended Conferences, Workshops & Schools

- Jul, 2025 **Researchers of Statistics Education Network Conference**, Online.
Attendee
- May, 2025 **CLeaR 2025**, Lausanne, Switzerland.
Attendee
- Jan, 2024 **14th Winter School Longitudinal Social Network Analysis**, Groningen, Netherlands.
Attendee
- May, 2023 **Complex Networks: Theory, Methods and Applications**, Como, Italy.
Attendee

Computer Skills

Programming Languages, *R, Python*.

Other Skills

- 2024 – **Flautist**, *Filarmonica Pregassona*, Pregassona, Switzerland.
present
- 2015 – 2024 **Flautist & Member of Board of Directors**, *Corpo Bandistico Pietro Bignardi*, Monzuno, Italy.