Martina Boschi

PhD Candidate

Faculty of Informatics
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at **Università della Svizzera italiana**
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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 – present	**PhD candidate in computational science**, *Institute of Computing, Università della Svizzera italiana*, Lugano, Switzerland, Advisor: Prof. **Ernst C. Wit**. ○ Network science, ○ Relational event models. (*personal webpage*)
2023 – present	**Teaching assistant**, *Faculty of Informatics, Università della Svizzera italiana*, Lugano, Switzerland. ○ Designing and delivering practical tutorials, ○ Student assessment and supervision. (*personal webpage*)
Jan, 2025 – May, 2025	**Visiting PhD student**, *Mathematics and Statistics, McGill University*, Montreal, Quebec, Canada, Advisor: Prof. **Eric D. Kolaczyk**. ○ Graph sampling techniques.
Feb, 2022 – Jun, 2022	**Visiting research trainee**, *Institute of Computing, Università della Svizzera italiana*, Lugano, 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 – Sep, 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 – present	**Student Mentor, BSc in Data Science**, *Faculty of Informatics, Università della Svizzera italiana*, Lugano, Switzerland. ○ Organizing regular meetings with mentees to ensure their progress, ○ Helping students address questions and difficulties.

Oct, 2023 – present	**Contributor to Outreach and Promotion, BSc in Data Science**, *Faculty of Informatics, 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 – Jun, 2022	**Swiss-European Mobility Programme**, *Institute of Computing, Università della Svizzera italiana*, 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 – Feb, 2020	**Erasmus+**, *Université Paris 2 Panthéon Assas*, Paris, France.
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

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

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

🏆 Awards

2022 **Member of the winning team**, *SAS Curiosity Cup*, Category: Data Analysis.
Team: Martina Boschi, Sara Rinaldini

2022, 2020, **University Grant for Best Performing Students**, Alma Mater Studiorum – Università di
2019 Bologna, Bologna, Italy.

📄 Publications

Journal Articles

2025 Martina Boschi and Ernst C. Wit. Goodness of fit in relational event models. *Statistics and Computing*, volume 36, page 4, October 2025.

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

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