

THOMAS ROBIGLIO

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EDUCATION

Central European University

September 2023 - Now

PhD in Network Science

PoliTO, SISSA, ICPT, UdP, Paris-Saclay, Sorbonne

September 2021 - July 2023

Master of Science program in Physics of Complex Systems

110/110 Cum Laude

Thesis: “*Higher-order structures in face-to-face interaction networks*”

Supervisors: Prof. A. Barrat, Prof. M. Génois, Prof. L. Dall’Asta

International Track

Graduated 28 July 2023

Università degli Studi di Torino

September 2018 - July 2021

Bachelor degree in Physical Science and Technology

107/110

Thesis: “*Interacting contagion models on simplicial complexes*”

Supervisors: Prof. M. Osella, Dr. G. Petri

Department of Physics

Graduated 20 July 2021

EXPERIENCE

Centre de Physique Théorique, Marseille

March 2023 - July 2023

Internship student

Worked under the supervision of Prof. Alain Barrat and Prof. Mathieu Génois on the statistical analysis and mathematical modeling of face-to-face interactions in human gatherings.

CENTAI Institute

February 2023 - September 2023

Visiting Student

Worked under the supervision of Dr. Giovanni Petri on the application of information theory metrics for the reconstruction of hypergraphs from Kuramoto dynamics.

ISI foundation

April 2021 - July 2021

Student

Assisted senior research scientist Dr. Giovanni Petri in the study of high-order interactions and spreading phenomena on simplicial complexes. The results of this work are the focus of my undergraduate thesis and are contained in [1].

Volunteering Activities

I am an active member of the Scout Group Torino 85. This entails various volunteering activities with the elderly and the less fortunate. Moreover, I am the chief-educator of a group of 12-16 y/o teens, managing and organizing outdoor activities, social events and field trips twice a week.

PARTICIPATIONS IN SCHOOLS AND CONFERENCES

- * International School and Conference on Network Science - Vienna (Austria), 10/07/2023 - 14/07/2023
- * Spring College on the Physics of Complex Systems, ICTP - Trieste (Italy), 20/02/2023 - 17/03/2023
- * Conference on Complex Systems, Palma de Mallorca (Spain), 17-21/10/2022


PUBLICATIONS

- [1] Maxime Lucas et al. “Simplicially driven simple contagion”. In: *Phys. Rev. Res.* 5 (1 Mar. 2023), p. 013201. DOI: 10.1103/PhysRevResearch.5.013201. URL: <https://link.aps.org/doi/10.1103/PhysRevResearch.5.013201>.

SOFTWARE

- * **CompleX Group Interactions (XGI)**

TECHNICAL STRENGTHS

- * Python , Julia, C++, ROOT, Wolfram Mathematica
- * MS Office Package, L^AT_EX
- * **Languages:** French, Italian (Native) English (Proficient).

INTERESTS

Italian politics, novels, podcasts. Sports junkie: football (Torino FC), cycling and mountaineering.