THOMAS ROBIGLIO

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EDUCATION

PoliTO, SISSA, ICPT, Université de Paris, Paris-Saclay, Sorbonne *September 2021 - Now*
Master of Science program in Physics of Complex Systems *Current avg. 28.65/30*
Thesis: *"Attractiveness and higher-order structures in face-to-face interaction networks"*
Supervisors: Prof. A. Barrat, Prof. M. Génois, Prof. L. Dall'Asta
International Track *Expected graduation 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 20/07/2021*

EXPERIENCE

Centre de Physique Théorique, Marseille March 2023 - *Now*
Internship student

Working 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 - *Now*
Visiting Student

Working 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 result of this work has been 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 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

* 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.

TECHNICAL STRENGTHS

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

INTERESTS

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