Sara Sottile

Ph.D. student

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Date of birth: 10/09/1995

Education

Nov 2019 - Present	**Ph.D. in Mathematics**, *University of Trento*, Trento, Italy. Research fellowship in "mathematical models of epidemics", Supervisor: Prof. Andrea Pugliese
Oct 2017 - Jul 2019	**M.Sc. in Mathematics (Modellistic Curriculum)**, *University of Turin*, Turin, Italy. Thesis: "Epidemic Models: a Switch Control for Networks", Supervisor: Prof. Lorenzo Fatibene, Co-supervisor: Prof. Xinzhi Liu, Grade: 110/110 cum Laude
Jan 2019 - Apr 2019	**M.Sc. in Applied Mathematics**, *University of Waterloo*, Waterloo, Ontario, Canada. Exchange Program, GPA: 86/100
Sep 2014 - Oct 2017	**B.Sc. in Mathematics**, *University of Bari "A. Moro"*, Bari, Italy. Thesis: "About Constitutive Equations in Thermodynamics", Supervisor: Prof. Arcangelo Labianca, Grade: 107/110
Sep 2009 - Jul 2014	**Scientific High School Diploma**, *High School "A. Volta"*, Foggia, Italy. Grade: 100/100

Employment and Academic Positions

Nov 2019 - Present	**Ph.D. position**, *University of Trento*, Deparments of Mathematics.
Nov - Dec 2018	**Administration activities**, *Research Area of School of Science of Nature*, Turin, Italy.
Sep 29, 2017	**Scientific Entertainer**, *European Researchers' Night 2017*, Bari, Italy.
Sep 2012	**Business Administration Intern at Regus**, *Internship*, London, United Kingdom.

Teaching experience

Sep 2020 - Present	**Mathematical Modeling**, *Joint course for M.Sc. in Mathematics, M.Sc. in Data science and M.Sc. in Quantitative and Computational Biology*, University of Trento, Trento, Italy.

Participations

4-7 Feb 2020 Trento (IT)	**11th Conference on Dynamical Systems Applied to Biology and Natural Sciences DSABNS**. Presented a poster named *"Time-varying epidemic transmission in heterogeneous networks"*.

Publications

[1] **Sottile, S. and Liu, X.**, *Time-varying epidemic transmission in heterogeneous networks and applications to measles*, Journal of Biological Systems, Vol. 28, No. 4 (2020) 1-26.

Preprints

[1] **Sottile, S., Kahramanoğulları, O. and Sensi, M.**, *How network properties and epidemic parameters influence stochastic SIR dynamics on scale-free random networks*, 2020, Preprint.
https://arxiv.org/pdf/2011.10595.pdf

[2] **Pugliese, A. and Sottile, S.**, *Inferring the COVID-19 infection curve in Italy*, 2020, Preprint.
https://arxiv.org/pdf/2004.09404.pdf

Awards

Nov 2019 - Nov 2022   **Departments of Excellence Ph.D. Fellowship**, *University of Trento*, Trento, Italy.
Topic: Mathematical models of epidemics

Co-Organization

Sep 2020 - Present   **Doc in Progress**, *Universty of Trento*, Deparments of Mathematics.
https://webmagazine.unitn.it/en/evento/dmath/84369/doc-in-progress

IT Skills

Programming	MATLAB, Python, R, C/C++, Maple, XXPAUT, HTML
Operative Systems	Windows, Linux
Softwares	LaTex, Word, Excel, PowerPoint

Languages

Mother tongue	Italian
Other languages	English (B2), Spanish (A2)

Certificates

Jun 2018   **English IELTS Academic**, Band Score 6.5 (CEFR Level B2).

Jun 2009   **ECDL Certification**, European Computer Driving Licence.