Enrico Gavagnin

Research Associate

Applied mathematician with PhD and 2+ years' post-doctoral experience in theoretical and experimental epidemiology. Knowledgeable and interested in modelling collective dynamics and complex networks.

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EXPERIENCE

Research Associate

University of Bristol, School of Life Sciences
2020 - present | Bristol, UK

- Using social insects as biological model to study epidemiological dynamics.
- Processing and analysing large datasets of social interaction networks
- Conceiving, designing and performing experiments with social insects using automated individual-tracking
- Cross-disciplinary team working, line manager of two lab assistants, Sustainability Lab coordinator
- Conceiving, supervising and time managing master's projects

PhD

University of Bath, School Mathematical Sciences
2016 - 2020 | Bath, UK

- Theoretical and applied research in the field of mathematical biology. Thesis: "Stochastic multi-scale models of cell behaviour"
- Conceiving and leading interdisciplinary research projects with international collaborations
- First author of five scientific publications in peer reviews journals (Physical Review E, Journal of Theoretical Biology, Biophysical Journal, Elsevier Handbook of Statistics)
- Teaching assistant for the courses Programming, Modelling and dynamical systems, Probability and Statistics
- Visiting scholarship at Queensland University of Technology, Australia

EDUCATION

MSc, Pure and Applied Mathematics

Università degli Studi di Padova
2014 - 2016 | Padova, Italy
Erasmus+ exchange at University of Bristol

BSc, Pure and Applied Mathematics

Università degli Studi di Padova
2011 - 2014 | Padova, Italy

TECHNICAL SKILLS

Mathematical modelling
Multi-scale modelling (agent-based/PDE), Probability and complex network analysis, Bioinformatics and statistical methods

Programming
Python, Matlab, R, Bash, Linux HPC, C, Git

Laboratory
Microscopy image analysis (ImageJ), Trained in qPCR, experimental planning

Languages
English (proficient), Italian (native), Spanish (intermediate)

AWARDS

Best talk - NWE-IUSSI Winter meeting
Dec 2021 | Oxford, UK
TakeAIM first prize - Smith Institute
Feb 2020 | Oxford, UK
Travel grant - Santander Mobility Award
Aug 2020 | Brisbane, Australia
Landahl Travel grant - Society of Mathematical Biology
Jul 2017 | Salt Lake City, Utah

SELECTED TALKS

University of Queensland - Invited speaker
Apr 2019 | Brisbane, Australia

Modelling stochastic biological systems, BAMC - Co-organizer
Apr 2019 | Bath, UK

Center of Information Services and High Performance Computing, TU - Invited speaker
Dec 2018 | Dresden, Germany

Swiss Federal Institute of Aquatic Science and Technology - Invited speaker
Dec 2018 | Zurich, Switzerland

Multi-scale models of cell behaviour, ECMTB - Co-organizer
Jul 2018 | Lisbon, Portugal