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 03/2020 - 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 multiscale 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 Erasmus+ exchange the University of Bristol 2014 - 2016, Padova, Italy

BSc, Pure and Applied Mathematics Università degli Studi di Padova

2011 - 2014, Padova, Italy

TECHNICAL SKILLS

Mathematical modelling:

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

Programming Languages

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

Santander Mobility Award - Travel grant Aug 2020, Brisbane, Australia

Landahl Travel Grant - Society of

Mathematical Biology
Jul 2017, Salt Lake City, Utah

SELECTED TALKS

Queensland University of Technology (invited speaker)

Apr 2019, Brisbane, Australia

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