Enrico Gavagnin

Data Scientist

Experienced applied mathematician passionate about social dynamics and collective intelligence. I like working in interdisciplinary and fast-paced environments where ideas can be challenged and evolve towards solutions.
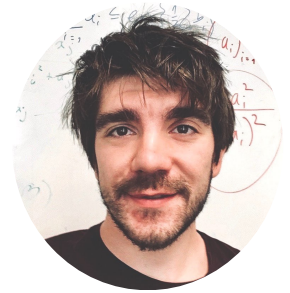
Find out more at: **www.enricogavagnin.github.io**

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EXPERIENCE

Research Associate

University of Bristol, School of Life Sciences

2020 - present | Bristol, UK

Data Science Predicting social network dynamics within ant colonies. Designing and analysing data-driven epidemiological simulations in Python/HPC clusters.

Problem solving and lateral thinking Proposing and defending novel research ideas. Regularly acting as reviewer for peer-review scientific journals.

Leadership and team working Cross-disciplinary team working, line manager of two lab assistants. Supervisor and mentor for the Bioinformatics Master Programme. Sustainability Lab coordinator.

Time and project management High degree of autonomy in the whole experimental process. This includes theoretical conception, laboratory and computational method development.

Communication Regularly visualising and presenting research results to seminars and international conferences. Scientific writing for peer-review journals.

PhD

University of Bath, School Mathematical Sciences

2016 - 2020 | Bath, UK

Mathematical modelling Theoretical modelling of collective behaviour of cancer cells using multi-scale modelling approach.

Time and project management Manage independent projects in parallel from formulation to completion resulting in five scientific publications.

Interdisciplinary Conceiving and leading two interdisciplinary research projects with international collaborations.

Collaboration and networking Visiting scholar at Queensland University of Technology, AU. Awarded collaboration with visual artist for exhibition "Visions of Science"

Communication First author of five scientific publications in peer-reviewed journals and speaker to several international conferences. Acting as teaching assistant for several units of the Department of Mathematics

TECHNICAL SKILLS

Analytics
Collective intelligence, multi-scale modelling (agent-based/PDEs), data driven models, complex network, bioinformatics, data mining, statistical methods

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

Languages
English, Italian, Spanish

TALKS AND AWARDS

Best talk - NWE-IUSSI Winter meeting
Dec 2021 | Oxford, UK

TakeAIM first prize - Smith Institute
Feb 2020 | Oxford, UK

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

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

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