Enrico Gavagnin, PhD

Data scientist and mathematician working on artificial and collective intelligence. I have a theoretical background and an applied mindset. Buzzword sceptical and technology enthusiast.

CONTACT

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🌐 www.enricogavagnin.github.io

in enricogavagnin

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SKILLS

Data analytics
Artificial intelligence, collective intelligence, ML, probability theory, statistics, mathematical modeling and simulations (agent-based models, dynamical systems), network science, data visualization.

Programming
Python (Pandas, NumPy, SciPy, Scikit-Learn), R, Matlab, Git, AWS, SQL, latex, ImageJ

Languages
Italian (native)
English (proficient)
Spanish (conversational)

EXPERIENCE

Data Scientist

Nesta | 2022 - present, London (UK)
Using data analytics and machine learning on projects of public good to promote sustainability, healthcare and education in UK.

- Developed a predictive simulation prototype model for childcare policy interventions
- Lead technical consultant for two startups to identify house retrofitting archetypes based on EPC data
- Developer and curator of a python package of data science utils for the data analytics team
- Working with Agile methodologies

Postdoctoral researcher

University of Bristol | 2020 - 2022, Bristol (UK)
Conceiving, designing and performing research projects on experimental and theoretical epidemiology.

- Leading a 2+ years research project end-to-end to manipulate the social network and collective behaviour of ant colonies
- Using hierarchical clustering analysis to design artificial social networks with targeted topological properties
- Highly interdisciplinary team of biologists and computer scientists
- Project supervisor for the bioinformatics MSc programme

EDUCATION

PhD, Mathematics

University of Bath | 2016 - 2020, Bath (UK)
Thesis: "Stochastic models of collective cell behaviour"

- Awarded visiting research fellow at QUT, Brisbane (AU)
- Author of five scientific publications
- Teaching assistant in programming, probability and statistics

MSc, Mathematics

Università degli Studi di Padova | 2014 - 2016, Padova (Italy)
Erasmus year at University of Bristol

BSc, Mathematics

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