



# Enrico Gavagnin, PhD

## 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)

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

## CONTACT

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 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)