

Ben Sanati

PhD Student, University of Edinburgh

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Research Interests

My interests lie in the theoretical foundations of machine learning and probability theory, with a focus on developing principled approaches to learning under uncertainty. My work explores continual learning, bounded rationality, and subjective perspectives on probability and decision theory. I also have a broader interest in epistemology, particularly concerning how beliefs are formed and updated.

Education

- 2024–2028 **Ph.D in Machine Learning Systems**, UNIVERSITY OF EDINBURGH.
Advisors: David Abel, Amos Storkey.
- 2019–2023 **MEng Electronic Engineering with AI**, UNIVERSITY OF SOUTHAMPTON.
First Class Honours
Advisors: Jonathon Hare, Geoff V. Merrett
Thesis: *Improving Inference Efficiency with Dynamic DNNs*
Thesis: *Detecting, Mapping, and Verifying Signage with CV and ML*

Professional Experience

- 03/24–07/24 **Senior Research Assistant**, UNIVERSITY OF SOUTHAMPTON.
Selected as the only associate on a £25k Innovate UK-funded project for an industry client, developing a mobile 3D SLAM system and presenting technical results with strategic insights to stakeholders.
- 07/23–09/23 **Data Science Intern**, CIRIUM, RELX GROUP.
Awarded a Data Science internship following my team's success in a machine learning hackathon. Applied spatiotemporal machine learning techniques for aviation time-series forecasting on large-scale datasets.
- 06/22–09/22 **Undergraduate Research Scholar**, UNIVERSITY OF SOUTHAMPTON.
Awarded a £5k scholarship to research efficient computer vision algorithms.

Awards

- 2024 EPSRC Machine Learning Systems Scholarship
- 2022 Undergraduate Research Scholarship

Publications

Forgetting is Everywhere

Ben Sanati, Thomas L. Lee, Trevor McInroe, Aidan Scannell, Nikolay Malkin, David Abel, Amos Storkey.
arXiv preprint.

Reviews and Talks

- Reviews 2025: Finding the Frame, RLC
- Talks 2025: The fundamental problem of forgetting. ANC Workshop, University of Edinburgh