

Scott Jeen

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Education

- Ph.D** in Machine Learning 2020 – Present
University of Cambridge
Supervisor(s): Professor Jonathan Cullen and Professor Alessandro Abate (Oxford)
- M.Phil** in Engineering for Sustainable Development 2018 – 2019
University of Cambridge
Supervisor(s): Professor Julian Allwood
Grade: 75% (5th percentile)
- M.Eng** in Mechanical Engineering 2013 – 2018
University of Edinburgh
Supervisor(s): Drs Andy Downes, Filipe Teixeira-Dias, Hannah Chalmers
Grade: **1st Class** (4th percentile)

Publications & Preprints

- Jeen, S. and Cullen, J.M., 2023. Dynamics Generalisation with Behaviour Foundation Models. **Spotlight** in *Reinforcement Learning Conference, Training Agents with Foundation Models Workshop*, 2024.
- Jeen, S., Bewley, T. and Cullen, J.M., 2023. Zero-Shot Reinforcement Learning from Low Quality Data. In *NeurIPS Workshop on Generalization in Planning*, 2023.
[paper] [website] [code] [poster]
- Jeen, S., Abate, A. and Cullen, J.M., 2022. Low Emission Building Control with Zero-Shot Reinforcement Learning. In *Proceedings of the AAAI Conference on Artificial Intelligence* (Vol. 37, No. 12, pp. 14259-14267).
[paper] [website] [code] [poster]
- Findeis, A., Kazhamiaka, F., Jeen, S. and Keshav, S., 2022, June. Beobench: a toolkit for unified access to building simulations for reinforcement learning. In *Proceedings of the Thirteenth ACM International Conference on Future Energy Systems* (pp. 374-382).
[paper] [code]
- Tzachor, A., Richards, C.E. and Jeen, S., 2022. Transforming agrifood production systems and supply chains with digital twins. In *Nature Science of Food*, 6(1), p.47.
[paper]

Professional History

- Research Scientist** Oct 2022 – April 2023
Foresight Data Machines
Topic(s): RL for automating steel manufacturing.
foresightdatamachines.com
- Enrichment Student** Jan 2022 – Sep 2022
The Alan Turing Institute, London, UK
Topic(s): Neural ODEs, Zero-shot generalisation in RL.

turing.ac.uk/people/enrichment-students/scott-jeen

PhD Student

Oct 2020 – Present

Department of Engineering

Topic(s): Reinforcement Learning, planning, sequence modelling, foundation models.

reffiency.org

Research Assistant

Jan 2019 – Sep 2019

UseLess Group, Cambridge, UK

Topic(s): Energy efficiency, material efficiency, systems engineering.

uselessgroup.org

Research Assistant

Jan 2018 – Jul 2018

Institute for Bioengineering, Edinburgh, UK

Topic(s): Computer vision, finite element modelling, cancer cell biomechanics.

eng.ed.ac.uk/research/institutes/ibioe

Engineering Intern

Jan 2017 – Aug 2017

Mott MacDonald, Edinburgh, UK

Topic(s): Computational fluid dynamics, lifecycle assessments, environmental impact assessments.

Awards & Honors

Alan Turing Institute Enrichment Scholarship [£ 2543]

2021

Awarded to students accepted onto the Turing's competitive enrichment scheme.

EPSRC Ph.D Scholarship [£ 101,000]

2020 – Present

Awarded to outstanding students pursuing doctoral degrees in science and engineering.

Scottish International Education Trust Postgraduate Scholarship [£ 2,000]

2019

Awarded by Sir Sean Connery to outstanding Scots pursuing postgraduate study. 2 awarded per year.

Cambridge University Full Blue (Golf)

2019, 2021, 2022

Awarded to elite university athletes for sporting achievement; recipient on three occasions.

Guinness World Record

2019

Awarded for breaking the record for most children playing piano simultaneously. I designed and built the children's designs.

88pianists.com

Archangels Investors Postgraduate Academic Scholarship [£ 12,600]

2018

Awarded for academic excellence and for potential to contribute toward global sustainability.

President

2017

Edinburgh University Golf Club

Elected to serve club of 110 members. Grew membership by 20% and commercial revenue by 31%.

Technical Skills

Languages:	Python, MATLAB, HTML
Libraries and Tools:	PyTorch, Tensorflow, Docker, etc.
Version Control:	Git
Reporting:	L ^A T _E X

Referees provided upon request.