

Scott Jeen

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Education

- Ph.D in Reinforcement Learning** 2020 – Present
University of Cambridge & Alan Turing Institute
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.**, Bewley, T. and Cullen, J.M., 2023. Conservative World Models. *arXiv preprint arXiv:2309.15178*, 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 *npj 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](https://www.turing.ac.uk/people/enrichment-students/scott-jeen)

PhD Student <i>Department of Engineering</i> Topic(s): Reinforcement Learning, planning, sequence modelling, foundation models. reffiency.org	Oct 2020 – Present
Research Assistant <i>UseLess Group, Cambridge, UK</i> Topic(s): Energy efficiency, material efficiency, systems engineering. uselessgroup.org	Jan 2019 – Sep 2019
Research Assistant <i>Institute for Bioengineering, Edinburgh, UK</i> Topic(s): Computer vision, finite element modelling, cancer cell biomechanics. eng.ed.ac.uk/research/institutes/ibioe	Jan 2018 – Jul 2018
Engineering Intern <i>Mott MacDonald, Edinburgh, UK</i> Topic(s): Computational fluid dynamics, lifecycle assessments, environmental impact assessments.	Jan 2017 – Aug 2017

Awards & Honors

Alan Turing Institute Enrichment Scholarship [£ 2543] Awarded to students accepted onto the Turing's competitive enrichment scheme.	2021
EPSRC Ph.D Scholarship [£ 101,000] Awarded to outstanding students pursuing doctoral degrees in science and engineering.	2020 – Present
Scottish International Education Trust Postgraduate Scholarship [£ 2,000] Awarded by Sir Sean Connery to outstanding Scots pursuing postgraduate study. 2 awarded per year.	2019
Cambridge University Full Blue (Golf) Awarded to elite university athletes for sporting achievement; recipient on three occasions.	2019, 2021, 2022
Guinness World Record Awarded for breaking the record for most children playing piano simultaneously. I designed and built the children's designs. 88pianists.com	2019
Archangels Investors Postgraduate Academic Scholarship [£ 12,600] Awarded for academic excellence and for potential to contribute toward global sustainability.	2018
President <i>Edinburgh University Golf Club</i> Elected to serve club of 110 members. Grew membership by 20% and commercial revenue by 31%.	2017

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.