

Scott Jeen

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Education

- Ph.D in Reinforcement Learning** 2020 – Present
University of Cambridge
Supervisor(s): Dr Jonathan Cullen and Professor Srinivasan Keshav
- 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.R.**, Abate, A. and Cullen, J.M., 2022. Low Emission Building Control with Zero-Shot Reinforcement Learning. Under review at *AAAI*.
[paper] [website] [code]
- 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. Accepted at *Nature Science of Food*.
[paper]

Professional History

- 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
- Aligned Student** Sep 2021 – Present
Centre for AI for the Study of Environmental Risks, Cambridge, UK
ai4er-cdt.esc.cam.ac.uk/StaffDirectory/students-all/aligned-students
- PhD Student** Oct 2020 – Present
Resource Efficiency Collective, Cambridge, UK
Topic(s): Deep RL, planning, sequence modelling, energy systems.
reffiency.org

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| ESG Consultant <i>Orbis Advisory, London, UK</i> Topic(s): Emission reduction, climate risk, GRESB. | Oct 2019 – Oct 2020 |
| 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

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| 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

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

Referees provided upon request.

Shout out to Hanno Rein for the great L^AT_EXcoffee stain package!