

# 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% (5<sup>th</sup> percentile)
- M.Eng in Mechanical Engineering** 2013 – 2018  
University of Edinburgh  
Supervisor(s): Drs Andy Downes, Filipe Teixeira-Dias, Hannah Chalmers  
Grade: **1<sup>st</sup> Class** (4<sup>th</sup> 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*.  
<https://arxiv.org/abs/2206.14191>
- 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).  
<https://dl.acm.org/doi/abs/10.1145/3538637.3538866>
- Tzachor, A., Richards, C.E. and **Jeen, S.**, 2022. Transforming agrifood production systems and supply chains with digital twins. Under review at *Nature NPJ Science of Food*.  
<https://arxiv.org/abs/2202.07455>

## 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](https://www.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](https://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](https://reffiency.org)

<b>ESG Consultant</b> <i>Orbis Advisory, London, UK</i> Topic(s): Emission reduction, climate risk, GRESB.	Oct 2019 – Oct 2020
<b>Research Assistant</b> <i>UseLess Group, Cambridge, UK</i> Topic(s): Energy efficiency, material efficiency, systems engineering. uselessgroup.org	Jan 2019 – Sep 2019
<b>Research Assistant</b> <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
<b>Engineering Intern</b> <i>Mott MacDonald, Edinburgh, UK</i> Topic(s): Computational fluid dynamics, lifecycle assessments, environmental impact assessments.	Jan 2017 – Aug 2017

## Awards & Honors

<b>Alan Turing Institute Enrichment Scholarship [£ 2543]</b> Awarded to students accepted onto the Turing's competitive enrichment scheme.	2021
<b>EPSRC Ph.D Scholarship [£ 101,000]</b> Awarded to outstanding students pursuing doctoral degrees in science and engineering.	2020 – Present
<b>Scottish International Education Trust Postgraduate Scholarship [£ 2,000]</b> Awarded by Sir Sean Connery to outstanding Scots pursuing postgraduate study. 2 awarded per year.	2019
<b>Cambridge University Full Blue (Golf)</b> Awarded to elite university athletes for sporting achievement; recipient on three occasions.	2019, 2021, 2022
<b>Guinness World Record</b> Awarded for breaking the record for most children playing piano simultaneously. I designed and built the children's designs. 88pianists.com	2019
<b>Archangels Investors Postgraduate Academic Scholarship [£ 12,600]</b> Awarded for academic excellence and for potential to contribute toward global sustainability.	2018
<b>President</b> <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 <sup>A</sup> T <sub>E</sub> X
Other Modelling:	EnergyPlus, SolidWorks, Abaqus

Referees provided upon request.

Shout out to Hanno Rein for the great L<sup>A</sup>T<sub>E</sub>Xcoffee stain package!