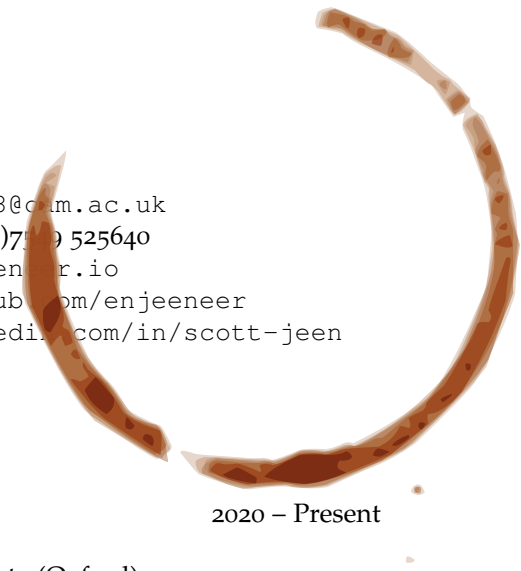


# Scott Jeen

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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% (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.**, Bewley, T. and Cullen, J.M., 2023. Conservative World Models. *arXiv preprint arXiv:2006.04779*, 2023.  
[paper] [website] [code]
- 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]
- 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](http://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://turing.ac.uk/people/enrichment-students/scott-jeen)

<b>PhD Student</b> <i>Department of Engineering</i> Topic(s): Reinforcement Learning, planning, sequence modelling, foundation models. <a href="http://reffiency.org">reffiency.org</a>	Oct 2020 – Present
<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. <a href="http://uselessgroup.org">uselessgroup.org</a>	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. <a href="http://eng.ed.ac.uk/research/institutes/ibioe">eng.ed.ac.uk/research/institutes/ibioe</a>	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. <a href="http://88pianists.com">88pianists.com</a>	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

Referees provided upon request.