

# Scott Jeen

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## Education

- Ph.D in Reinforcement Learning** 2020 – Present  
University of Cambridge & Alan Turing Institute  
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. 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)
- PhD Student** Oct 2020 – Present  
*Department of Engineering*  
Topic(s): Reinforcement Learning, planning, sequence modelling, foundation models.

reffiency.org

### ESG Consultant

Oct 2019 – Oct 2020

*Orbis Advisory, London, UK*

Topic(s): Emission reduction, climate risk, GRESB.

### 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 <sup>A</sup> T <sub>E</sub> X

Referees provided upon request.