PENELOPE JONES

Gonville and Caius College, Trinity Street, Cambridge, CB2 1TA

EDUCATION

Gonville and Caius College, University of Cambridge *2019 - Present*
PH.D. PHYSICS

Supervisor: Dr Alpha Lee
Areas of Study: Machine learning, Bayesian inference, reinforcement learning, and their application in materials discovery and smart charging of energy storage devices.

Pembroke College, University of Cambridge *2015 - 2019*
M.SCI. EXPERIMENTAL AND THEORETICAL PHYSICS
B.A. NATURAL SCIENCES

Part III: Class I	77.6%
Part II: Class I	79.3%
Part IB: Class I	81.0%
Part IA: Class I	83.6%

ACADEMIC AWARDS

Alan Turing Institute Studentship *2021 - Present*

Oppenheimer Scholarship *2019 - Present*

Winton Scholarship *2019 - Present*

Foundation Scholarship, Pembroke College *2017, 2018, 2019*
For performance in the Natural Sciences Tripos.

BP Prize *2016*
For outstanding performance in Part IA Chemistry (2^{nd} out of 600 students).

Dr Stevens Prize *2016*
For performance in Part IA Natural Sciences (7^{th} out of 600 students).

College Scholarship, Pembroke College *2016*
For performance in Part IA Natural Sciences.

British Chemistry Olympiad *2015*
Top 50 in the UK.

British Physics Olympiad Experimental Prize *2014*
For producing the best A-level project in the UK.

PUBLICATIONS

Bayesian unsupervised learning reveals hidden structure in concentrated electrolytes *2021*
P. Jones, F. Coupette, A. Härtel, A.A. Lee, Journal of Chemical Physics, 154, 134902

The photoswitch dataset: a molecular machine learning benchmark for the advancement of synthetic chemistry *2020*
A.R. Thawani, R-.R. Griffiths, A. Jamasb, A. Bourached, P. Jones, W. McCorkindale, A.A. Aldrick, A.A. Lee, arXiv:2008.03226

ICLR Workshop on Fundamental Science in the Era of AI *2020*