Charles London

DPhil Student · Computer Science · University of Oxford

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Education

Trinity College, University of Oxford *10/23 - Now*

DPhil Computer Science

- Supervisor: Prof. Varun Kanade
- Working on learning theory and generalisation in deep neural networks.
- Affiliated with Louis group in Dept. of Theoretical Physics.

Wolfson College, University of Oxford *10/20 - 1/22*

MSc Computer Science (Distinction)

- Thesis supervisor: Prof. Yarin Gal
- Thesis: An investigation into the use of generalization measures in hyperparameter optimization.
- Averaged 89% in examinations

Trinity College, University of Cambridge *10/16 - 6/19*

BA Computer Science w/ Physics (First Class)

- Thesis supervisor: Prof. Pietro Liò
- Thesis: A tool for phenotype prediction from cell genotype - using variational autoencoders to improve cancer classification via semi-supervised learning.

Professional Experience

10/23 - Now	**Graduate Departmental Tutor**, Department of Computer Science, University of Oxford
10/23 - 11/23	**Mathematics Admissions Test Marker**, Mathematical Institute, University of Oxford
3/22 - 7/23	**NLP Research Engineer**, Quantinuum
7/19 - 9/19	**Analyst**, Nivaura
7/18 - 9/18	**Software Developer**, Softwire
7/16 & 7/17	**Coach**, Nike Tennis Camp, Lake Tahoe

Publications

Preprints and submitted papers

London, C., Brown, D., Xu, W., Vatansever, S., Langmead, C.J., Kartsaklis, D., Clark, S. and Meichanetzidis, K., 2023. *Peptide Binding Classification on Quantum Computers.* arXiv preprint arXiv:2311.15696.

Conference Abstracts

Ridout, S., Nemenman, I., Louis, A., Mingard, C., Grabarczyk, R., Dingle, K., Valle Pérez, G. and **London, C.**, 2024. *Bounds on learning with power-law priors.* Bulletin of the American Physical Society.

Kartsaklis, D., Fan, I., Yeung, R., Hoffmann, T., Kocijan, V., **London, C.**, Pearson, A., Lorenz, R., Toumi, A., de Felice, G. and Meichanetzidis, K., 2022. *Quantum NLP with lambeq.* Applied Category Theory.

Awards & Scholarships

2023	**EPSRC Scholarship**, University of Oxford	*Full DPhil funding*
2019	**Senior Scholarship**, Trinity College, University of Cambridge	
2018	**Senior Scholarship**, Trinity College, University of Cambridge	

Teaching Experience

MT 2023	**Computational Learning Theory**, Departmental Tutor