

# MUFENG TANG

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## EDUCATION

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<b>University of Oxford</b> DPhil (PhD) Computational Neuroscience	Oxford, UK <i>2021 - 2025 (expected)</i>
<b>University of Chicago</b> MS Statistics, <b>GPA:3.8/4.0</b>	Chicago, IL <i>2019 - 2021</i>
<b>University College London</b> BASc Science and Engineering, <b>First Class Honours</b>	London, UK <i>2016 - 2019</i>

## RESEARCH EXPERIENCE

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<b>University of Oxford, Brain Network Dynamics Unit</b> DPhil Student, with Prof. Rafal Bogacz	Oxford, UK <i>Sep 2021 - present</i>
<ul style="list-style-type: none"><li>Currently working on predictive coding models for associative memory in the hippocampus, and their relationships with classic memory models such as the Hopfield Networks.</li></ul>	
<b>University of Chicago, Neuroscience Institute</b> Student Researcher, with Prof. Jason MacLean	Chicago, IL <i>Aug 2020 - Oct 2021</i>
<ul style="list-style-type: none"><li>Worked on recurrent spiking neural network models for neo-cortical computations, preceded with a convolutional neural network trained to model the pre-processing of natural movies by the visual cortex.</li></ul>	
<b>University of Chicago, Department of Statistics</b> Student Researcher, advised by Prof. Yali Amit	Chicago, IL <i>June 2020 - Sep 2021</i>
<ul style="list-style-type: none"><li>Worked on self-supervised neural networks with localized learning rules and objective functions as a biologically plausible model of learning in the brain.</li></ul>	

## PUBLICATIONS/PREPRINTS

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**Tang M, Yang Y, Amit Y.** Biologically Plausible Training Mechanisms for Self-Supervised Learning in Deep Networks. *Frontiers in Computational Neuroscience*. 2022 Mar 21. [URL]

## COMPETITIONS

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<b>Kaggle ASHRAE Great Energy Predictor, Silver Medal (among 3,600 teams)</b> Kaggle Competition	<i>Dec 2019</i>
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## AWARDS AND SCHOLARSHIPS

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University of Oxford, <b>St Cross E.P. Abraham Scholarship £15,000/annum</b>	<i>Sep 2021</i>
University of Chicago, <b>tuition scholarship for academic excellence \$5540/quarter</b>	<i>July 2020</i>
University of Chicago, <b>tuition scholarship \$4610/quarter</b>	<i>July 2019</i>

## TEACHING EXPERIENCE

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Worked as a TA for **STAT25025 Machine Learning and Large-scale Data Analysis** at the University of Chicago, Spring 2021.

## SKILLS

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**Programming Languages and Frameworks**  
Python (PyTorch, Tensorflow, Scikit-learn), R, Matlab, Java, CSS, HTML