Matthew James Sargent

University College London
Department of Computer Science
Phone: 44 07925404733

matthew.sargent.19@ucl.ac.uk
github.com/mjsargent

Education

University College London
PhD Computer Science, 2019-present
Project: Biologically-inspired approaches to transfer
and generalisation in reinforcement learning

Imperial College London
MEng Biomedical Engineering (First Class Honours), 2015-2019
Project: Hippocampus-inspired deep learning

Research

**Biologically Inspired Computation and Inference Group,
Imperial College London**
Undergraduate Research Assistant, Summer 2018
Project: Measuring abstract reasoning in artificial neural networks

Jasanoff Laboratory, Massachusetts Institute of Technology
International Research Exchange Student, Summer 2018
Project: Electrode noise reduction in simultaneous fMRI
and electrophysiological recording

Dept. of Bioengineering, Imperial College London
Group Research Project, 2017-2018
Project: Monitoring of breathing rate in anesthetised
mice by piezoelectric-transduction-based pressure sensing

Boutelle Group, Imperial College London
Undergraduate Research Assistant, Summer 2017
Project: Dexamethasone perfusion for improving resolution of
glucose microdialysis probes in traumatic brain injury monitoring

Teaching	**Dept. of Computer Science, University College London**

Dept. of Computer Science, University College London
Postgraduate Teaching Assistant, Reinforcement Learning, 2020 & 2021
Postgraduate Teaching Assistant, Machine Vision, 2019 & 2020

Neuromatch Academy Summer School
Tutorial Designer for Intro to PyTorch & Reinforcement Learning, 2021
Teaching Assistant, 2020

Dept. of Bioengineering, Imperial College London
Undergraduate Teaching Assistant, Mathematics I, 2019
Undergraduate Teaching Assistant, Biomedical Instrumentation, 2019
Undergraduate Teaching Assistant, Signals and Control, 2018-2019

Outreach and Student Recruitment, Imperial College London
STEM Workshop Leader, 2019-present
STEM Workshop Mentor, 2016-2019

Awards

EPSRC Doctoral Studentship
4 year award for tuition fees and stipend, 2019

EPSRC Vacation Research Bursary
Awarded for summer research in artificial intelligence, 2018

Imperial International Research Opportunities Programme Award
One of two Bioengineering students selected to participate in a
research exchange programme, 2018

Dept. of Bioengineering Best Group Research Project
Awarded to the best group research project by academic vote, 2018

Wellcome Trust Vacation Scholarship
Awarded for summer research in neuroscience, 2017

Technical Skills
Python (advanced) PyTorch (advanced), Scikit-Learn (advanced),
Bash (proficient), C++ (proficient),
Git (proficient), MATLAB (proficient), Open-ePhys (proficient)
C (basic), JavaScript (basic)

Languages
English (native), French (basic)