

Bruno K. Mlodozieniec

Information and Computer Engineering Student

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Experience

Apple

June - September, 2019

Software Engineering and Machine Learning Intern | Siri Team

Cambridge, UK

- Unsupervised learning methods for distributional shift detection in a team working on the Siri Voice Assistant.

University of Cambridge

August - October, 2018

Machine Intelligence Laboratory Intern | Undergraduate Research Opportunity Project

Cambridge, UK

- Worked with Professor Gales' group on various methods for training neural networks capable of providing useful measures of uncertainty, including [deep ensembles](#), [deep Prior Networks](#), and [MC-dropout](#).
- Investigated *Ensemble Distribution Distillation* using Prior Networks as a novel method for [ensemble distillation](#) that retains ensemble's performance on uncertainty-related tasks.
- Continued collaboration with the lab during the following year to develop, benchmark, and write a [paper](#) on *Ensemble Distribution Distillation*, currently under review for ICLR.

Harvard University | School of Engineering and Applied Sciences

July - August, 2018

Visual Computing Group Intern

Cambridge, USA

- Worked on investigating novel methods for motif discovery and network comparison for biological networks.
- Launched an initial investigation for explorative analysis of large connectomics graph datasets representing biological neural networks derived from the 3D segmentation of EM brain images performed by the Visual Computing Group.

Cisco Systems

July - September, 2017

Machine Learning Intern

Oslo, Norway

- Improved the speech detection accuracy of the Cisco Webex wake-up feature.

Education

University of Cambridge

2016-2020

Master of Engineering | Computer and Information Engineering

Emmanuel College

Year 1 Performance: 1st Class. Top 10% of class.

Year 2 Performance: 1st Class. Top 8% of class.

Year 3 Performance: 1st Class. Top 7% of class.

Awarded Rowley Mainhood College Prize for academic performance on exams.

Relevant coursework: Inference, Information Theory, Optimisation, Deep Learning & Structured Data, Probabilistic Machine Learning, Signal Processing, Neuroscience, Computational Neuroscience, Software Engineering Parser Project, Foundations of Data Science, Medical Imaging & Computer Graphics

Honors & Awards

Royal Academy of Engineering

2018

| Engineering Leaders Scholarship

Royal Academy of Engineering, UK

- A scholarship aimed at supporting engineering undergraduates who have the potential to become future leaders in their fields, and who are able to act as role models for the future engineers.

International Mathematical Olympiad (IMO)

July, 2015

| Honourable Mention

Chiang Mai, Thailand

- 2nd best score on the Norwegian team.

Societies

2018 - Now **Co-founder, Chairman**, Cambridge University Machine Intelligence Network

Cambridge

- I co-founded, and currently chair, the Cambridge University Machine Intelligence Network - a student society dedicated to increasing engagement and collaboration among students, researchers and industry practitioners.

Skills

• Python ●●●

• TensorFlow ●●●

• PyTorch ●●●

• C++ ●●○