

Bruno K. Mlodozeniec

MEng in Information and Computer Engineering

University of Cambridge

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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.

Year 4: 1st Class for Master's Thesis. Courses unclassified that year due to COVID-19.

Awarded Rowley Mainhood College Prize and Frank Marriott Scholarship for academic performance on exams.

Relevant coursework: Probabilistic Machine Learning, Information Theory, Optimisation, Deep Learning & Structured Data, Statistical Signal Processing, Computational Neuroscience, Foundations of Data Science, Computer Vision, Linear Algebra

Master's Thesis: Causal Inference: A Probabilistic Modelling Perspective supervised by Professor Richard Turner

Experience

Microsoft

Sep, 2020 - Sep, 2021

AI Resident

Cambridge, UK

- Applying Bayesian Optimization and probabilistic modelling to automatise the design of experiments in synthetic biology.

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 Mark Gales on developing and benchmarking methods for training neural networks capable of providing useful measures of uncertainty.
- Developed and investigated a novel method for producing uncertainty-robust neural networks: [Ensemble Distribution Distillation](#) (published in ICLR 2020).

Harvard University | School of Engineering and Applied Sciences

July - August, 2018

Visual Computing Group Intern

Cambridge, USA

- Investigated novel methods for analysing large networks of synaptic connectivity in a brain through motif discovery.

Cisco Systems

July - September, 2017

Machine Learning Intern

Oslo, Norway

- Implemented and benchmarked NN models for speech detection at Cisco Webex.

Honours & Awards

Royal Academy of Engineering

2018

| **Engineering Leaders Scholarship**

Royal Academy of Engineering, UK

- A £5000 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 - 2020 **Co-founder**, Cambridge University Artificial Intelligence Society

Cambridge

- I co-founded, and chaired, the Cambridge University Artificial Intelligence Society - a student society dedicated to increasing engagement with AI/ML among students and providing opportunities for collaboration with researchers and industry.

Publications

2019

Andrey Malinin[†], Bruno Mlodozeniec[†], and Mark Gales. **Ensemble Distribution Distillation**. *International Conference on Learning Representations*. [[†] equal contributions first authorship]