Bruno K. Mlodozeniec

Information / Machine Intelligence Engineering Undergraduate · Third Year

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Experience _

University of Cambridge

August - October, 2018

Machine Intelligence Laboratory Intern | Undergraduate Research Opportunity Project

Cambridge, UK

- · Worked with Prof Gales on detection of response relevance to a prompt for spoken language learning assessment.
- Investigated various methods for training uncertainty aware neural networks with an attention mechanism including Deep Ensembles and Deep Prior Networks, as well investigated ensemble compression using Prior Networks.
- The research I have conducted during the internship is currently being drafted into a paper.

Harvard University | School of Engineering and Applied Sciences

July - August, 2018

Cambridge, USA

- **Visual Computing Group Intern**
- · Worked on deep learning methods for motif discovery and network (graph) comparison for biological networks.
- The goal of the internship was to investigate options for 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 and Deep Learning Intern

Oslo, Norway

- Worked on Wake Word Detection for Cisco Webex.
- Trained various deep NN architectures including convolutional and recurrent neural networks for the problem of keyword spotting.
- Developed a Python routine for training, validating and testing keyword spotting models with efficient off-GPU example queuing.
- The model developed during the internship outperformed previous solutions.

Education ____

University of Cambridge | M.Eng. in Information Engineering

2016-2020

Emmanuel College Cambridge, UK

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

Year 2 Performance: 1st Class. Top 8% of class. Awarded Rowley Mainhood College Prize for academic performance on exams.

Courses include:

Inference Information Theory Bioengineering Neuroscience
Linear Algebra Optimisation Linear Systems Signal Processing

Coursework includes:

• Programming: Python, C++, Version Control and Collaborative Programming with git, Microprocessors

• IDP: Integrated Design Project. In a team of six we collaborated to build and test an autonomous mobile robot for a student competition, including software in C++.

Additional Computer Science Modules:

Foundations of Data Science Machine Learning and Real-world Data

Kristiansand Katedralskole Gimle

2014-2016

International Baccalaureate (IB)

Kristiansand, Norway

- IB Diploma score: 43 / 45.
- Extended Essay and Theory of Knowledge grades: A & A

Programming Skills ____

Pvthon •••
 TensorFlow •••
 PvTorch ••∘
 C++ ••∘

Honors & Awards **Royal Academy of Engineering** 2018 | Leaders Scholarship Royal Academy of Engineering, UK • I was named a Royal Academy of Engineering Leaders Scholar. • The scholarship scheme is aimed at supporting engineering undergraduates who have the potential to become leaders in engineering and who are able to act as role models for future engineers. **International Mathematical Olympiad (IMO)** July, 2015 | Honourable Mention Chiang Mai, Thailand • 2nd best score on the Norwegian team. · Undertaken a week-long preparation camp to develop formality and creativity in mathematical thinking, as well as improve my general problem solving skills. **Norwegian Mathematical Olympiad** March, 2016 | 3rd place Trondheim, Norway · Based on my performance in the national olympiad, I was selected to represent Norway in the International Mathematical Olympiad (IMO) and the teamwork-oriented Nordic Mathematical Olympiad (NMC) **Norwegian Physics Olympiad** April, 2016 | Finalist Oslo, Norway Societies -**Co-founder, Chairman**, Cambridge University Machine Intelligence Network Cambridge • Co-founded a society with the aim of providing a platform for students with interest in machine intelligence to collaborate, organise workshops, and coordinate teams to participate in machine learning competitions and run

machine learning projects.

2016 **Presenter**, Hackers at Cambridge

Cambridge

- Lead a workshop sponsored by Docker on their platform for the university students.
- Collaborated to come up with ideas, prepare, and run workshops.

2014 - 2016 **Vice-president**, Amnesty International - Kristiansand Youth Division

Kristiansand, Norway

• Initiated projects and events to of advocate against human rights violations.

Other			
Languages:			
Native Level:	English	Norwegian	Polish