Bruno K. **Mlodozeniec**

Information / Machine Intelligence Engineering Undergraduate · Third Year

Emmanuel College, St Andrew's St, Cambridge, CB2 3AP, United Kingdom

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Education

University of Cambridge, Emmanuel College
M.Eng. in Engineering

2016-2020

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:

Control Theory	Information Engineering	Bioengineering	Linear Algebra
Linear Algebra	Vector Calculus	Linear Systems	Signal Processing

Coursework includes:

- Programming: Python, C++, Version Control and Collaborative Programming with `git`, Microprocessors
- Design: Conceptual Product Design, CAD
- IDP: Integrated Design Project. In a team of six we collaborated to build and test a mobile robot vehicle for a student competition, including software in C++.

Additional Computer Science Modules:

Artificial Intelligence	Machine Learning and Real-world Data

Kristiansand Katedralskole Gimle
Secondary School - International Baccalaureate

2014-2016

Kristiansand, Norway

- IB Diploma score: 43 / 45.
- Extended Essay and Theory of Knowledge grades: A & A
- Bilingual Diploma achieved in English and Norwegian

Experience

Harvard University
Harvard School of Engineering and Applied Sciences (SEAS) Intern - Visual Computing Group

July - August, 2018

Cambridge, USA

- Primary Activity: Deep Learning Methods for Motif Discovery and Structural Network Analysis of Biological Neural Networks
- The goal of the internship was to investigate options for analysis of large connectomics graph datasets representing biological neural networks with over 1 million neurons derived from the 3D segmentation of EM images performed by the Visual Computing Group.

Cisco Systems
Machine Learning and Deep Learning Intern

July - September, 2017

Oslo, Norway

- Primary Activity: Wake Word Detection for Cisco Webex.
- Trained multiple deep learning 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 solution created during the internship outperformed previous solutions.

Skills

Programming:

Proficient:

- Python
- TensorFlow
- PyTorch
- C++

Honors & Awards

International Mathematical Olympiad (IMO)
| Honourable Mention

July, 2015

Chiang Mai, Thailand

- 2nd best score on the Norwegian team.
- During the week-long preparation camp, developed formality in mathematical thinking, as well as creativity in mathematical and general problem solving.

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*

Norwegian Mathematical Olympiad *March, 2015*

| 6th place *Trondheim, Norway*

Societies

| 2018 - Now | **Co-founder**, 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.

| 2017 - Now | **Vice-President**, Emmanuel Engineering Society | *Cambridge* |

- Vice-president for a newly founded engineering society with the aim of connecting Emmanuel engineering students from across different years and Emmanuel College alumni to foster cooperation and exchange of ideas.

| 2016 - Now | **Member, 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

- Guitar player and song-writer.
- Uses VIM bindings in my IDE.

References

Dr Svein Gunnar Pettersen *Cisco Systems, Norway*

Software Projects Manager at Cisco Systems

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Dr Alexandre J. Kabla *University of Cambridge*

Director of Engineering Studies at Emmanuel College

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