BRADLEY GRAM-HANSEN

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EXPERIENCE

Research Internship with the European Space Agency, Oxford University, SA Catapult, NVidia and UNICEF

Frontier Development Lab

📅 Jun 2018 – Oct 2018   📍 Oxford, UK & Esrin, IT

- Developed an automated framework for detecting informal settlements.
- The framework was computationally and cost efficient.
- Had never been accomplished with low-resolution imagery before.
- Only 8 weeks to find the data and come up with a solution.
- Code is open-sourced **here** and there is a blog post **here**.

Research Internship with the EPSRC

Mathematical Physics Group, University of Nottingham

📅 June 2014 — Sept 2014   📍 Nottingham, UK

- Supervised by Professor Gerardo Addesso, Professor Ivette Fuentes and Dr Antony Lee.
- Developed novel techniques for analysing quantum channels and maps.

AWARDS

Academic

📅 Ongoing   📍 The Earth

2019	Neurlps2019 Travel Award
2018	FDL Award for Unexpected Discovery
2016-2020	EPSRC Fully-Funded 4-Year PhD Studentship
2014	EPSRC Summer Research Award
2014	BP Ambition Award
2012	Eliahou Dangoor Scholarship
2012	PWC High Flyers Award
2011	Sir Peter Mansfield High Achiever Scholarship
2011-2015	St Ann's Experian Scholarship
2011-2015	First in the Family Scholarship
2010	Excellent Dedication and Contribution A-level Physics
2010	Interest and Enthusiasm A-level Mathematics

Sporting

📅 Ongoing   📍 The Earth

2016	11 th in age group, IronMan Copenhagen. Qualified to represent the UK for Long Distance Duathalon
2016	Silver Medal, Nottinghamshire Fell Running Championships
2005-2007	National Mini-field youth hockey champion U13 and U15

INVITED TALKS

2019	Invited by the UN to give a talk on AI for space at the AI for good global summit, *Geneva, CH*.
2018	Invited to the Oxford centre for Human Brain Activity to give a talk on Probabilistic Programming. *Oxford, UK*
2018	Invited to ESA Esrin to give a talk on using machine learning to detect informal settlements. *Esrin, IT*

EDUCATION

PhD in Machine Learning

University of Oxford

📅 Oct 2016 – Oct 20202

Supervisors: Prof Yee Wyhe Teh ● Dr Tom Rainforth ● Dr Atılım Günes Baydin ● Prof Phil Torr

- Developing frameworks for automating inference.
- Machine learning for health and societal uses.
- Published at Neurlps, AISTATS, AAAI, etc.

MMath in Mathematics

University of Nottingham

📅 Sept 2011 – Jul 2015 📍 First, 75% Average

PROGRAMMING SKILLS

Python ●●●●●○
Pytorch, Numpy, Scipy ●●●●○○
Matlab ●●●○○○
Latex & Markdown ●●●○○○
Git & Docker ●●●○○○
Clojure & C++ ●●○○○○

TECHNICAL SKILLS

Probabilistic Programming

Markov Chain Monte Carlo

Gaussian Processes   Regression

Classification   Deep Learning

Bayesian Inference   Time Series

Linear Algebra

Quantum and Classical Mechanics

Differential Equations

SOFTSKILLS

Team Work   Agile   Observant

Responsible   Hard-Working

LANGUAGES

English ●●●●●
Madarin, *Learning* ●○○○○
French ●○○○○

REFERENCES

- Several available upon request.