

BRADLEY GRAM-HANSEN

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📖 Blog

🔗 [bayesianbrad](#)

🎓 Publications

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

Research Internship with the EPSRC

Mathematic Physics Group, University of Nottingham

📅 June 2014 – Sept 2014

📍 Nottingham, UK

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

AWARDS

Academic

📅 Ongoing

📍 The Earth

- | | |
|-----------|---|
| 2019 | NeurIPS2019 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 Awards

📅 Ongoing

📍 The Earth

- | | |
|-----------|---|
| 2016 | IronMan Copenhagen 11th in Age Group and Qualified to Represent UK for Long Distance Duathlon |
| 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, <i>Geneva, CH</i> . |
| 2018 | Invited to the Oxford centre for Human Brain Activity to give a talk on Probabilistic Programming. <i>Oxford, UK</i> |
| 2018 | Invited to ESA Esrin to give a talk on using machine learning to detect informal settlements. <i>Esrin, IT</i> |

EDUCATION

PhD in Machine Learning

University of Oxford

📅 Oct 2016 – Oct 2020

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

- Develop frameworks for automating inference.
- Machine learning for health and societal uses.

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.