

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.
- We only had 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 Adesso, Professor Ivette Fuentes and Dr Antony Lee.
- Developed novel techniques for analysing quantum channels and maps.

AWARDS

Academic

📅 Ongoing

📍 The Earth

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| 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

📅 Ongoing

📍 The Earth

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|-----------|--|
| 2016 | 11 th in age group, IronMan Copenhagen. Qualified to represent the 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

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|------|--|
| 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 📍 Oxford, UK

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 NeurIPS, AISTATS, AAAI, etc.

MMath in Mathematics

University of Nottingham

📅 Sept 2011 – Jul 2015 📍 Nottingham, UK

- 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.