Matt Graham Machine learning PhD student at University of Edinburgh

Education

Supervisor: Amos Storkey, Project: Auxiliary variable MCMC methods

09/2012 – 09/2013 MSc by Research in Neuroinformatics, University of Edinburgh

Result: Distinction, Project: Insect olfactory landmark navigation

10/2008 – 06/2012 MEng in Information and Computer Engineering, University of Cambridge

Result: First-class Honours / Distinction, Project: Measuring tissue stiffness with ultrasound

Experience

12/2014 – Consultant, Ellative

Part-time consulting for machine learning start-up.

01/2014 – Teaching support, School of Informatics, University of Edinburgh

Teaching roles for undergraduate and masters level courses (details below).

07/2011 – 09/2011 Undergraduate research assistant, Engineering Department, University of Cambridge

Summer research project, exploring use of technology in supporting mental health care.

07/2010 – 09/2010 Junior software engineer, Granta Design, Cambridge

Summer internship at materials information software firm.

07/2009 – 08/2009 Educational resource development, NRICH, Cambridge

Summer internship with educational charity.

08/2007 – 08/2008 Engineering assistant, Mott MacDonald, Newcastle

Year in Industry placement in regional office of civil engineering and development consultancy.

Conference

(04/2017) Asymptotically exact inference in differentiable generative models

Matthew M. Graham and Amos J. Storkey

To appear in: Proceedings of the 20th International Conference on Artificial Intelligence and Statistics

05/2016 Pseudo-Marginal Slice Sampling

Iain Murray and Matthew M. Graham

Proceedings of the 19th International Conference on Artificial Intelligence and Statistics

Workshop

12/2016 Continuously tempered Hamiltonian Monte Carlo

Matthew M. Graham and Amos J. Storkey

Advances in Approximate Bayesian Inference workshop, Neural Information Processing Systems

Software

05/2016 Theano: A Python framework for fast computation of mathematical expressions

Theano Development Team

Teaching

School of Informatics, University of Edinburgh

09/2016 —	Teaching assistant, Machine Learning Practical
09/2016 - 11/2016	Tutor, Machine Learning and Pattern Recognition
01/2016 - 04/2016	Teaching assistant, Probabilistic Modelling and Reasoning
09/2015 - 01/2016	Demonstrator, Machine Learning Practical
11/2015 - 12/2016	Marker, Machine Learning and Pattern Recognition
09/2015 - 12/2015	Tutor, Information Theory
01/2014 - 03/2016	Tutor, Probabilistic Modelling and Reasoning

Outreach

07/2015 - 05/2016	Volunteer tutor, Queensferry High School, Queensferry
	One-to-one tutoring in applied mathematics through STEM Ambassadors scheme.
01/2010 - 03/2011	School placements, STIMULUS, Cambridge Placements at two local accordance schools in Combridge assisting in teaching of STEM subjects.
	Placements at two local secondary schools in Cambridge assisting in teaching of STEM subjects.
10/2008 - 06/2012	Outreach volunteer, Cambridge University Engineering Department
	Assisting in workshops aimed at encouraging young people to consider engineering careers.

Awards and scholarships

12/2016	Advances in Approximate Bayesian Inference workshop (NIPS 2016), Disney Research Paper Award
05/2015	Scottish Informatics and Computer Science Alliance (SICSA), Summer School Bursary
09/2012	University of Edinburgh, Neuroinformatics Doctoral Training Centre Scholarship (4 years)
2010-2012	University of Cambridge, Jesus College, Scholarships (Engineering Part IB/IIA/IIB)

Computing

Languages	Python (expert), C (proficient), MATLAB (proficient), Javascript (proficient), C# (prior experience)
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Frameworks NumPy, SciPy, Theano, TensorFlow

Workflow Git, Bash, Jupyter notebooks Markup Markdown, LaTeX, HTML

Courses

08/2016	Mountain Leader Award (summer) training, Mountain Training UK
11/2015	Outdoors Emergency First Aid, British Association of Ski Patrollers
10/2015 - 11/2015	Scientific Computing, Edinburgh Parallel Computing Centre, University of Edinburgh
08/2015 - 09/2015	Machine Learning Summer School, Kyoto University
01/2014 - 03/2014	Beginners Chinese (1.2), Confucius Institute for Scotland, University of Edinburgh
09/2013 - 11/2013	Beginners Chinese (1.1), Confucius Institute for Scotland, University of Edinburgh
10/2010 - 03/2011	Intermediate German (3), Language Unit, Cambridge University Engineering Department
10/2009 - 03/2010	Intermediate German (2), Language Unit, Cambridge University Engineering Department