Hyunjik Kim

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Education

Oct 2015 onwards — **University of Oxford**, PhD in Machine Learning.
- Areas of Research: Scalable Probabilistic Inference, Bayesian Statistics, Deep Generative Models
- Supervised by **Yee Whye Teh**, Professor of Statistical Machine Learning of the Statistics Department.

2011 – 2015 — **Trinity College, University of Cambridge**, MMath, BA (Hons.) in Mathematics.
- **Part IA:** First Class Honours **Part IB:** First Class Honours **Part II:** First Class Honours **Part III(MMath):** Distinction

2007 – 2011 — **Hampton School**, Middlesex.
- **Balkan Mathematical Olympiad:** Bronze Medal (Member of UK Team)
- **British Mathematical Olympiad:** UK top 10. **British Physics Olympiad:** Gold Medal, UK top 20

Publications

2016 — **H. Kim**, X. Lu, S. Flaxman and Y. W. Teh. **Tucker Gaussian Process for Regression and Collaborative Filtering**. *arXiv preprint arXiv:1605.07025*

H. Kim and Y. W. Teh. **Scalable Structure Discovery in Regression using Gaussian Processes**. *To Appear in AutoML 2016 Proceedings (Journal of Machine Learning Research Workshop and Conference Proceedings)*

Research/Work Experience

Jun – Aug 2015 — **Research Intern at Microsoft Research (MSR)**, Cambridge, UK.
- Implemented social collaborative filtering techniques on *Delve*, Microsoft's document recommender system.
- Carried out exploratory data analysis to investigate e.g. structures of social graphs, relation between different types of social ties and similar document consumption, informative patterns in clicks.

Nov 2014 – May 2015 — **Master's Thesis: Bayesian Approaches to Collaborative Filtering on the Netflix Data**, University of Cambridge. *Supervisor: Dr. Rajen Shah.*

Jun – Oct 2014 — **R package 'FSInteract'**, Statistical Laboratory, University of Cambridge. *Supervisor: Dr. Rajen Shah.*
- Created R implementation of *R. Shah, N. Meinshausen. Random Intersection Trees*, a fast algorithm for finding prevalent interactions in large-scale sparse binary data. 'FSInteract' available for download on **Comprehensive R Archive Network (CRAN)**

Honours and Awards

2015 — *Clarendon Fund Scholarship*, Awarded to the top 3% of graduate students across all disciplines at the University of Oxford, full funding for PhD studies.

2014 — *Heilbronn Prize*, for outstanding academic performance, Trinity College, Cambridge.

2013 — *Senior Scholarship*, for outstanding academic performance, Trinity College, Cambridge.

2012 — *Junior Scholarship*, for outstanding academic performance, Trinity College, Cambridge.

Computing

Languages — Proficient in **Python, C++, MATLAB, Julia, R**, with experience in creating R packages and using Rcpp.

Libraries — TensorFlow, Torch.

Presentations

Jun 2016 — **Scalable Structure Discovery in Regression using Gaussian Processes**, Poster Presentation, *International Conference in Machine Learning (ICML) 2016*, AutoML workshop.

Dec 2014 — **Bayesian Networks**, A Marriage of Probability and Graph Theory, in the context of Statistics, Part III seminar, Faculty of Mathematics, University of Cambridge.

Academic Activities

Sep 2016 onwards — Organiser of weekly **Deep Learning Research/Reading Group**, Department of Statistics, University of Oxford

Aug 2016 — **Deep Learning Summer School**, Université de Montréal.
- Among the 235 selected participants out of 775 applicants

Teaching

Oct-Dec 2015 — SB1a **Applied Statistics**, Teaching Assistant. Involved marking and running tutorial classes.

Additional Skills/Activities

Languages Korean(Native), English(Fluent)

French: A* for A Level, then took one-month immersion course in *Besançon, France* – C1 level

Spanish: DELE B2 – Pass

Leadership **Undergraduate President of Cambridge Univeristy Korean Society(CUKS)[2012–2013]**, Organised:.
- Social Events: Freshers' Squash, Welcoming Drinks, Annual Dinner
- Cultural Events: Korean Film Night, Participant in the Cambridge World Food Festival
- Academic Events: Talks by Korean politicians/comedians
- Recruitment Events: Samsung, LG, Hanhwa – arranged presentations

Sport Active football player with *Worcester College & Oxford University Korean Society*

Referees

Prof. Yee Whye Teh (PhD Supervisor) **Department of Statistics, University of Oxford**, 24-29 St Giles, Oxford OX1 3LB, y.w.teh@stats.ox.ac.uk.

Dr. Dan Alistarh (Supervisor at MSR) **Department of Computer Science, ETH**, Universitätstrasse 6, Zürich, 8092, dan.alistarh@inf.ethz.ch.

Dr. Rajen Shah (Summer Research Supervisor) **Faculty of Mathematics, University of Cambridge**, Centre for Mathematical Sciences, Wilberforce Road, Cambridge, CB3 0WA, r.shah@statslab.cam.ac.uk.