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.
 - o Part IA: First Class Honours Part IB: First Class Honours Part II: First Class Honours Part III(MMath): Distinction
- 2007 2011Hampton School, Middlesex.
 - Balkan Mathematical Olympiad: Bronze Medal (Member of UK Team)
 - o 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. Scaling up the Automatic Statistician: Scalable Structure Discovery in Regression using Gaussian Processes. AutoML 2016 Proceedings (JMLR Workshop and Conference Proceedings), Oral & Travel Award at NIPS 2016 Practical Bayesian Nonparametrics Workshop

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.
- o 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.
- Heilbronn Prize, for outstanding academic performance, Trinity College, Cambridge. 2014
- 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

- Dec 2016 Scaling up the Automatic Statistician: Scalable Structure Discovery in Regression using Gaussian Processes, Oral Presentation, NIPS 2016, Practical Bayesian Nonparametrics workshop.
- Scalable Structure Discovery in Regression using Gaussian Processes, Poster Presentation, ICML 2016, Jun 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 University Korean Society(CUKS)[2012-2013], Organised:.

o Social Events: Freshers' Squash, Welcoming Drinks, Annual Dinner

o Cultural Events: Korean Film Night, Participant in the Cambridge World Food Festival

o 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, Universit" "at strasse 6, Z" "at strasse

Dr. Rajen Shah (Summer Research Supervisor)

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