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Probabilistic Programming | Bayesian Deep Learning | Dimensionality Reduction

Education

University of Edinburgh Edinburgh, UK

Ph.D in Informatics: Machine Learning Sep. 2017 - PRESENT

• Being supervised by Dr. Charles Sutton.

• Currently working on amortized inference for Bayesian non-parametric models.

University of Cambridge Cambridge, UK

Oct. 2015 - Sep. 2016

Sep. 2013 - Jun. 2015

Cambridge, United Kingdom

Liverpool, United Kingdom

Aug. 2014 - Jul. 2015

Suzhou, China

M.PHIL IN MACHINE LEARNING, SPEECH AND LANGUAGE TECHNOLOGY

• Final average grade 72.4%.

• Thesis supervised by Prof. Zoubin Ghahramani and awarded distinction.

University of Liverpool Liverpool Liverpool, UK

B.Eng in Computer Science and Electronic Engineering

• Final average grade 84.3%.

Xi'an Jiaotong-Liverpool University

B.Eng in Computer Science and Technology Sep. 2011 - Jun. 2013

• Final average grade 84.3%.

Papers_

Akash Srivastava, **Kai Xu**, Michael U. Gutmann and Charles Sutton.. "Ratio Matching MMD Nets: Low dimensional projections for effective deep generative models." *arXiv preprint arXiv: 1806.00101*, 2018.

Kai Xu, Dae Hoon Park, Yi Chang and Charles Sutton. "Interpreting Deep Classifiers by Visual Distillation of Dark Knowledge." *arXiv* preprint *arXiv*: 1803.04042, 2018.

Hong Ge, **Kai Xu**, and Zoubin Ghahramani. "Turing: Composable inference for probabilistic programming." *Artificial Intelligence and Statistics*, 2018.

Kai Xu. "Probabilistic programming in Julia." M.Phil thesis, August 2016.

Experience

The Brain Charity

Apple Cambridge, United Kingdom

Machine Learning Intern

May. 2018 - Aug. 2018

Cambridge Machine Learning Group

RESEARCH ASSISTANT Nov. 2016 - Jul. 2017

• Developed a new general probabilistic programming language named Turing.jl.

Researched on composition of MCMC algorithms and efficient HMC variants.

IT Maintainer and Software Developer

• Regular maintenance of in-house computing server.

Developed a new online room booking system.

Skills

Programming Julia, Python, Java, Scala, MATLAB, Clojure, C/C++, HTML, CSS, JavaScript **Tooling** Git, Atom, Vim, Markdown, LaTeX, macOS, Linux, Android, iOS, Nginx, SQLite

Languages Chinese, Wu Chinese, English

June 9, 2018 KAI XU · CURRICULUM VITAE

Honors & Awards

2017 **Ph.D Studentship**, University of Edinburgh

2013 International Undergraduate Student Scholarship, University of Liverpool

2012 Academic Excellence Award, Xi'an Jiaotong-Liverpool University

Edinburgh, UK Liverpool, UK

Suzhou, China

Presentation

JuliaCon, 2017Berkeley, CA, USA

PRESENTER FOR <TURING: A FRESH APPROACH TO PROBABILISTIC PROGRAMMING.>

• Introduced a new general probabilistic programming language named Turing.jl.

Jun. 2017

References _____

 Dr. Charles Sutton
 School of Informatics, University of Edinburgh ➤ email

 Prof. Zoubin Ghahramani
 Department of Engineering, University of Cambridge ➤ email