

Kai Xu

PH.D STUDENT · MACHINE LEARNING

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Probabilistic Programming | Bayesian Deep Learning | Dimensionality Reduction

Education

University of Edinburgh

PH.D IN INFORMATICS: MACHINE LEARNING

- Being supervised by Dr. Charles Sutton.
- Currently working on amortized inference for Bayesian non-parametric models.

Edinburgh, UK

Sep. 2017 - PRESENT

University of Cambridge

M.PHIL IN MACHINE LEARNING, SPEECH AND LANGUAGE TECHNOLOGY

- Final average grade 72.4%.
- Thesis supervised by Prof. Zoubin Ghahramani and awarded distinction.

Cambridge, UK

Oct. 2015 - Sep. 2016

University of Liverpool

B.ENG IN COMPUTER SCIENCE AND ELECTRONIC ENGINEERING

- Final average grade 84.3%.

Liverpool, UK

Sep. 2013 - Jun. 2015

Xi'an Jiaotong-Liverpool University

B.ENG IN COMPUTER SCIENCE AND TECHNOLOGY

- Final average grade 84.3%.

Suzhou, China

Sep. 2011 - Jun. 2013

Publications

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

Cambridge Machine Learning Group

RESEARCH ASSISTANT

- Developed a new general probabilistic programming language named Turing.jl.
- Researched on composition of MCMC algorithms and efficient HMC variants.

Cambridge, UK

Nov. 2016 - Jul. 2017

The Brain Charity

IT MAINTAINER AND SOFTWARE DEVELOPER

- Regular maintenance of the in-house computing server.
- Developed a new online room booking system for the charity.

Liverpool, UK

Aug. 2014 - Jul. 2015

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

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, 2017


Berkeley, CA, USA

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

Jun. 2017

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

References

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

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