

Flat 12, Almond House, 2 Morgan Lane, Edinburgh, EH8 8FP, United Kingdom

□ +44 (0)77 0771 9899 | **x**ukai921110@gmail.com | **x**ukai | **x**ukai92

Probabilistic Programming | Bayesian Deep Learning | Dimensionality Reduction

Education

University of Edinburgh

Edinburgh, UK

Sep. 2017 - PRESENT

- Ph.D in Informatics: Machine Learning
- Being supervised by Dr. Charles Sutton.
- Currently working on amortized inference for Bayesian non-parametric models.

University of Cambridge

Cambridge, UK

M.PHIL IN MACHINE LEARNING, SPEECH AND LANGUAGE TECHNOLOGY

Oct. 2015 - Sep. 2016

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

University of Liverpool

Liverpool, UK

B.Eng in Computer Science and Electronic Engineering

Sep. 2013 - Jun. 2015

• Final average grade 84.3%.

Xi'an Jiaotong-Liverpool University

Suzhou, China

B.Eng in Computer Science and Technology

Sep. 2011 - Jun. 2013

• Final average grade 84.3%.

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

Cambridge, United Kingdom

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.

The Brain Charity IT MAINTAINER AND SOFTWARE DEVELOPER

Liverpool, United Kingdom

• Regular maintenance of in-house computing server.

Aug. 2014 - Jul. 2015

- 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

Honors & Awards __

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

2013 International Undergraduate Student Scholarship, University of Liverpool Liverpool, UK

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



JuliaCon, 2017

Berkeley, CA, USA

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

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

Jun. 2017

References