Yongxin **Yang**

PhD · Machine Learning

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Education

Queen Mary, University of London   *London, UK*
PhD in Computer Science   *Sep 2013 – Exp. Sep 2017*
- Machine Learning (Transfer Learning, Domain Adaptation, and Multi-Task Learning)
- Neural Networks with Applications to Computer Vision and Computational Finance

University College London   *London, UK*
MSc in Computational Statistics and Machine Learning   *Sep 2011 – Sep 2012*
- Thesis: Detect the Phishing URLs: Heuristic Features and Empirical Study of Machine Learning Approaches
- Main Modules: Probabilistic and Unsupervised Learning, Approximate Inference and Learning in Probabilistic Models (Two PhD courses organised by Gatsby Computational Neuroscience Unit), Advanced Topics in Machine Learning (RKHS & Reinforcement), Advanced Topics in Statistics (MCMC & Extreme Value Theory), Supervised Learning, Evolutionary and Natural Computation, Information Retrieval and Data Mining

Kingston University London   *London, UK*
BSc in Actuarial Mathematics and Statistics   *Sep 2009 – Jun 2011*
- Main Modules: Calculus, Linear Algebra, Probability and Mathematical Statistics, Ordinary Differential Equation, Partial Differential Equation and Approximation Theory, Numerical Methods, Regression Modelling, Time Series and Forecasting, Stochastic Finance, Operational Research

Beijing Normal University, Zhuhai   *Zhuhai, China*
BA in International Finance   *Sep 2007 – Jun 2009*
- Main Modules: Financial Accounting, Management accounting, Intermediate Accounting, Principles of Management, Organizational Behaviour, Management Information System, Microeconomics, Macroeconomics, Corporate Finance, Financial Market and Institutions, Foundation of International Business, Commercial Law, Fundamentals of Marketing

Experience

WDFC UK Limited   *London, UK*
Risk Analyst   *Oct 2012 – Sep 2013*
- Maintain and improve the decision engine that essentially drives the business

Cisco System   *London, UK*
Intern Developer   *Jun 2012 – Sep 2012*
- Design and implement a malicious URL detection system

Kingston University London   *London, UK*
Teaching Assistant   *Jan 2010 – Jun 2011*
- TA for Programming Essentials, Object-Oriented Programming with Java, and HTML Programming and Internet Tools

Honours & Awards

2015   **Best Science Paper Award**, British Machine Vision Conference   *Swansea, UK*
2013   **Queen Mary Principal's Studentships**, Queen Mary, University of London   *London, UK*
2011   **Professor John Morris Prize for Outstanding Achievement in Mathematics**, Kingston University London   *London, UK*
2009   **International Scholarship**, Kingston University London   *London, UK*

Publication

Conference

Deep Multi-task Representation Learning: A Tensor Factorisation Approach   *Toulon, France*
Yongxin Yang and Timothy Hospedales   *2017*
International Conference on Learning Representations (ICLR)

Gated Neural Networks for Option Pricing: Rationality by Design   *San Francisco, USA*
Yongxin Yang, Yu Zheng, and Timothy Hospedales   *2017*
AAAI Conference on Artificial Intelligence (AAAI)

Multivariate Regression on the Grassmannian for Predicting Novel Domains

YONGXIN YANG AND TIMOTHY HOSPEDALES

Computer Vision and Pattern Recognition (CVPR)

Las Vegas, USA

2016

Sketch-a-Net that Beats Humans

QIAN YU*, YONGXIN YANG*, YI-ZHE SONG, TAO XIANG, AND TIMOTHY HOSPEDALES

British Machine Vision Conference (BMVC)

Swansea, UK

2015

A Unified Perspective on Multi-Domain and Multi-Task Learning

YONGXIN YANG AND TIMOTHY HOSPEDALES

International Conference on Learning Representations (ICLR)

San Diego, USA

2015

Transductive Multi-label Zero-shot Learning

YANWEI FU, YONGXIN YANG, TIMOTHY HOSPEDALES, TAO XIANG, AND SHAOGANG GONG

British Machine Vision Conference (BMVC)

Nottingham, UK

2014

Weakly Supervised Learning of Objects, Attributes and their Associations

ZHIYUAN SHI, YONGXIN YANG, TIMOTHY HOSPEDALES, AND TAO XIANG

European Conference on Computer Vision (ECCV)

Zurich, Switzerland

2014

JOURNAL

Spectroscopic super-resolution fluorescence cell imaging using ultra-small Ge quantum dots

MINGYING SONG, ALI KARATUTLU, ISMA ALI, OSMAN ERSOY, YUN ZHOU, YONGXIN YANG, YUANPENG ZHANG, WILLIAM R. LITTLE, ANN P. WHEELER, AND ANDREI V. SAPELKIN

Optics Express

Optical Society of America

2017

Weakly-Supervised Image Annotation and Segmentation with Objects and Attributes

ZHIYUAN SHI, YONGXIN YANG, TIMOTHY HOSPEDALES, AND TAO XIANG

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

IEEE Computer Society

2016

Sketch-a-Net: A Deep Neural Network that Beats Humans

QIAN YU, YONGXIN YANG, FENG LIU, YI-ZHE SONG, TAO XIANG, AND TIMOTHY HOSPEDALES

International Journal of Computer Vision (IJCV)

Springer US

2016