

Yongxin Yang

RESEARCH ASSOCIATE · THE UNIVERSITY OF EDINBURGH

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Education

Queen Mary, University of London

PHD IN COMPUTER SCIENCE

London, UK

Sep 2013 – Jul 2017

- Machine Learning (Transfer Learning, Domain Adaptation, and Multi-Task Learning)
- Neural Networks with Applications to Computer Vision and Computational Finance

University College London

MSC IN COMPUTATIONAL STATISTICS AND MACHINE LEARNING

London, UK

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

BSC IN ACTUARIAL MATHEMATICS AND STATISTICS

London, UK

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

BA IN INTERNATIONAL FINANCE

Zhuhai, China

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

The University of Edinburgh

RESEARCH ASSOCIATE

Edinburgh, UK

Jan 2018 –

- Offshore Robotics for Certification of Assets (ORCA) Project

WDFC UK Limited

RISK ANALYST

London, UK

Oct 2012 – Sep 2013

- Maintain and improve the decision engine that essentially drives the business

Cisco System

INTERN DEVELOPER

London, UK

Jun 2012 – Sep 2012

- Design and implement a malicious URL detection system

Kingston University London

TEACHING ASSISTANT

London, UK

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

Learning to Compare: Relation Network for Few-Shot Learning

Salt Lake City, USA

FLOOD SUNG, YONGXIN YANG, LI ZHANG, TAO XIANG, PHILIP TORR, AND TIMOTHY HOSPEDALES

2018

Computer Vision and Pattern Recognition (CVPR)

Learning Deep Sketch Abstraction

UMAR MUHAMMAD, YONGXIN YANG, YI-ZHE SONG, TAO XIANG, AND TIMOTHY HOSPEDALES

Computer Vision and Pattern Recognition (CVPR)

Salt Lake City, USA

2018

Deep Stock Representation Learning: From Candlestick Charts to Investment Decisions

GUOSHENG HU, YUXIN HU, KAI YANG, ZHAO YU, FLOOD SUNG, ZHIHONG ZHANG, FEI XIE, JIANGUO LIU, NEIL ROBERTSON,

TIMOTHY HOSPEDALES, AND QIANGWEI MIEMIE

International Conference on Acoustics, Speech and Signal Processing (ICASSP)

Calgary, Canada

2018

Learning to Generalize: Meta-Learning for Domain Generalization

DA LI, YONGXIN YANG, YI-ZHE SONG, AND TIMOTHY HOSPEDALES

AAAI Conference on Artificial Intelligence (AAAI)

New Orleans, USA

2018

Attribute-Enhanced Face Recognition with Neural Tensor Fusion Networks

GUOSHENG HU, YANG HUA, YANG YUAN, ZHIHONG ZHANG, ZHENG LU, SANKHA MUKHERJEE, TIMOTHY HOSPEDALES, NEIL

ROBERTSON, AND YONGXIN YANG

International Conference on Computer Vision (ICCV)

Venice, Italy

2017

Deeper, Broader and Artier Domain Generalization

DA LI, YONGXIN YANG, YI-ZHE SONG, AND TIMOTHY HOSPEDALES

International Conference on Computer Vision (ICCV)

Venice, Italy

2017

Deep Multi-task Representation Learning: A Tensor Factorisation Approach

YONGXIN YANG AND TIMOTHY HOSPEDALES

International Conference on Learning Representations (ICLR)

Toulon, France

2017

Gated Neural Networks for Option Pricing: Rationality by Design

YONGXIN YANG, YU ZHENG, AND TIMOTHY HOSPEDALES

AAAI Conference on Artificial Intelligence (AAAI)

San Francisco, USA

2017

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

Frankenstein: Learning Deep Face Representations using Small Data

GUOSHENG HU, XIAOJIANG PENG, YONGXIN YANG, TIMOTHY HOSPEDALES, AND JAKOB VERBEEK

IEEE Transactions on Image Processing (TIP)

IEEE Signal Processing Society

2017

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

