

Xinyu Yang

AI · COMPUTER VISION · PHD CANDIDATE

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Education

Bristol Visual Information Institution (University of Bristol)

CANDIDATE PHD. IN COMPUTER VISION

- Deep Learning for Dynamic and Behavioural Great Ape Recognition

Bristol, UK

Sep. 2018 - Exp. Jun. 2021

Advanced Computer Science (University of Sheffield)

MSc. IN COMPUTER SCIENCE

- Performance with *Distinction*

Sheffield, UK

Sep. 2016 - Dec. 2017

Electronics & Information Engineering (Sichuan University)

B.S. IN ELECTRONIC ENGINEERING

- SCU Single Second-class Academic Scholarship
- Engineering Excellence Program

Chengdu, China

Sep. 2011 - Jun. 2015

Academics

WACV

BACK TO THE FUTURE: CYCLE ENCODING PREDICTION FOR SELF-SUPERVISED CONTRASTIVE VIDEO REPRESENTATION LEARNING

- Novel temporal cycle-exploiting minimisation objective for self-supervised pretext learning from unlabelled video
- State-of-the-art performance with significant margins on standard datasets UCF101 and HMDB51.
- Top computer vision conference contribution paper

Waikoloa

Jan. 2020

ICCVW

GREAT APE DETECTION IN JUNGLE CAMERA TRAP FOOTAGE VIA MULTI-LEVEL ATTENTION-BASED SPATIAL AND TEMPORAL

FEATURE BLENDING

- Publish PanAfrica Dataset for wildlife detection
- State-of-the-art performance on Primates detection and tracking PanAfrica Dataset
- Top computer vision conference contribution paper

Seoul, Korea

Oct. 2019

Master Thesis Project

REAL-TIME FACE VERIFICATION AND AGE GENDER ESTIMATION

- Exploring cutting edge of computer vision on human face verification task and automatic age & gender estimation
- Master thesis awarded with *Distinction*

Sheffield, UK

May. 2017 - Sep. 2017

UK AI National Challenge

FAKE NEWS CHALLENGE: STANCE DETECTION

- News classification and authenticity testing challenge exploring the power of AI and its influence on mainstream media.
- Top 3 on the official challenge recognition accuracy leaderboard.

Sheffield, UK

Feb. 2017 - Mar. 2017

National College Innovation Project

BLIND TRACK IDENTIFICATION SYSTEM BASED ON KINECT

- Blind track detection based on Kinect
- Journal: *Analysis on the Blind Road Identification of Imaging Process*

Chengdu, China

Jul. 2014 - May. 2015

Work Experience

University of Bristol

TEACHING ASSISTANT

- COMSM0045 Applied Deep Learning
- COMS30030 Image Processing and Computer Vision
- COMS20011 Data-Driven Computer Science

Bristol, UK

Dec. 2018 - Present

Machine Learning Group, University of Sheffield

URBAN FLOWS OBSERVATORY, RESEARCH ASSISTANT

- 2D thermal images and visual images of houses to identify the areas of different materials
- gather both the thermal images and visual images of houses, and use ML technologies to design a material recognition system

Sheffield, UK

Nov. 2017 - Feb. 2018

IBM China Global Delivery Center

BATCH OPERATOR & CONSOLE OPERATOR

- IBM Mainframe Batch jobs execution from client's request
- IBM Mainframe Servers maintenance and Batch job design based on JCL

Shenzhen, China

Sep. 2015 - Dec. 2015