**Hao Dong**

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He is now a Ph.D. candidate at Data Science Institute and Department of Computing, Imperial College London. His current research interests focus on deep learning, data acquisition and machine learning theory and applications in data driven research, especially in time series classification and automatic feature selection. He also concern about the field of advanced sensors. He is the recipient of Ph.D Scholarship and Outstanding Undergraduate Student Scholarship.

Hao Dong received a first-class honours BEng degree in digital signal and image processing from Beijing Institute & Technology and University of Central Lancashire in 2011, and a Distinguish Master degree in Department of Computing (visual information processing group) from Imperial College London in 2012. He has held visiting position with Chinese Academy of Sciences. He also worked as a CTO at high-tech company in China.

Interest : Deep Learning & Data Acquisition & GPU Acceleration & Quantitative Analysis

**EDUCATION**

**London, UK Imperial College London Jan. 2015 – Present**

PhD in Computer Science, Data Science Institute

**London, UK Imperial College London Oct. 2011 – Oct. 2012**

Msc in Computing, Visual Information Processing Distinction

**Preston, UK University of Central Lancashire Sep.2010 – Jun. 2011**

BEng (Hons) Digital Signal and Image Processing First Class

**Beijing, China Beijing Institute and Technology Sep.2007 – Sep.2010**  BEng (Hons) Electronic Engineering First Class

(Note: University of Central Lancashire and Beijing Institute and Technology have a joint undergraduate program.)

**WORK & INTERSHIP EXPERIENCES**

**Guangdong, China** **Tatwah Smartech (SZ002512) Sep. 2012 – Aug. 2014**

CTO of Health Products Department

My responsibility was leading a small technical team and using machine learning and biosensor technology to built health monitoring software and corresponding medical devices, provides customised health service to healthy individual and patients. Our department has offices in Guangdong, Beijing and Hong Kong. In these 2 years work process, I learn how to utilises the theory knowledge in the practice and how to supervise a small technical team.

**Shenzhen, China Chinese Academy of Sciences Aug. 2014 – Dec. 2014**

Assistant

The Chinese Academy of Sciences has cooperation with Imperial College and their Research Center for e-Health was just established when I visited there. So they invited me to help them to build an algorithm team related to machine learning, data analysis and wearable computing.

**Zhongshan, China Zhongshan Embedded System Center July. 2010 – Aug. 2010**

Summer internship, Programmer

I participate in a game development using C++, this let me fully understood Object Oriental Programing. Besides, I also participate in a small project which design a LED RGB Photometer, basic on TCS230.

**Zhongshan, China Dong Yi High-Tech Material Co., Ltd May. 2010 – Jun. 2010**

Summer internship, Assistant

Assemble and test a polyimide film product line. This is the first time I work with foreigner, because the product line was designed by a Chinese team and a Japanese team from Sumitomo Heavy Industries. Co., Ltd. The assembly line is able to manufacture the polyimide film at a thickness of 12.5um.

**Zhongshan, China China Telecom Feb. 2010**

Internship, Assistant

Technical support to management of switch room and base station. I fully understood the communication protocols like TCP, UDP, Html etc, and be familiar with Linux command line operations.

**HONORS and AWARDS**

PhD Scholarship Imperial College

Undergraduate Scholarship Beijing

Guangdong Youth Innovation Competition Silver Medal

Zhong Shan Youth Innovation Competition Gold Medal

China Patents Invention Patents 2

Utility Patents 8

**SKILL & INTEREST**

**Languages :** English (fluent), Mandarin (native), Cantonese (native)

**Sports :** Kendo, Climbing, Runing

**Programming :**

**Commonly use deep learning framework:** Tensorflow, Theano, Keras, Lasagne

**Commonly use at present :** Python

**Commonly used in the past:** C++, Matlab, C, Java

**Master Content :**

- Machine Learning and Neural Computation, Intelligent Data Analysis and Probabilistic Inference

- Computational Finance, Operation Research, Machine Learning, Parallel Algorithms

- Computer Vision, Advanced Graphics and Visualisation, Robotics

- Individual Project: Machine Learning for electroencephalogram (EEG) analysis – Attention classification

**Undergraduate Content :**

- Artificial Neural Networks, Software Development, Engineering Mathematics

- Digital Image Processing, Digital Signal Processing, Computer Vision

- Signal Analysis and Processing, Data Communication, Digital System

- Digital Electronics, Electronic System, Analogue Electronics

- Individual Project:

Automatic Extraction and Classification of Grooves and Wear Indicators in 3D Tire Image (Work for ProContour. Co., Ltd. Germany)