

# Xia Hua

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## Education

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- University of Cambridge** 2019 – 2023
- PhD in Engineering (Optical Pre-classifier for Deep Learning)
  - Modules include Probabilistic Machine Learning, Deep Learning and Structured Data
- University of Cambridge** 2018 – 2019
- Master of Research (MRes) in Integrated Photonic and Electronic Systems
  - Modules include Computer Vision, Optical Fibre Communication and etc.
- University of Warwick** 2015 – 2018
- Bachelor of Engineering (BEng) in Engineering (General), First Class Honours
- Abbey College Cambridge (High School)** 2013 – 2015
- A-Level Mathematics, Further Mathematics and Physics (A\*A\*A), AS Economics (A)

## Work Experience

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- VividQ** **Cambridge, UK**  
*R&D Software Engineer* Jun. 2019 – Aug. 2019
- Implement several algorithms in MATLAB for Computer Generated Holography
  - Investigate the layer based algorithm to achieve full parallax for 3D holographic display
  - Retrieve depth layer and amplitude information from Unity through Visual Studio (C#)
- Kantar Media CIC** **Shanghai, China**  
*Business Data Analyst Internship* Jul. 2018 – Sep. 2018
- Social media data mining and analysis through Python, Excel and etc.
  - Generate daily, semi-month, month and other reports for clients
  - Clients include Huawei, Qualcomm, Coca-Cola and etc.
- Warwick Manufacturing Group (WMG)** **Coventry, UK**  
*Summer Research Internship* Jul. 2017 – Sep. 2017
- Supervisor: Professor Richard McMahon
  - Research on battery and converter sizing and battery management algorithm by using MATLAB and Simulink
  - Built a Simulink model, analysed data from house power monitor hub.
- TATA Consultancy Services** **Shanghai, China**  
*Assistant System Administrator Internship* Jul. 2016 – Aug. 2016
- Maintained operating systems such as updating software and fixing users' issues by remote control through client-server
  - Assembled and updated desktops for the company's clients (Nelson and JP Morgan)
  - Assisted the Information System team classify users' network switch port
- China CITIC Bank** **Yangzhou, China**  
*Summer Internship* Jun. 2014 – Jul. 2014
- Worked under Department of International Business
  - Learned how systems such as Swift, Chips work in BIS (bank for international settlements)

## Skills

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### Language

- MATLAB, L<sup>A</sup>T<sub>E</sub>X, Python, Verilog, C#

**Honours and Awards**

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URSS	<i>Jun. 2019</i>
URSS	<i>Jun. 2018</i>

**Interests**

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