

## Yu Cao

Yu.carl@outlook.com | +44 07410410202

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### EDUCATION

- 2016 - 2018**      **Xian Jiao Tong Liverpool University**  
Major in Applied Mathematics
- 2018 - 2020**      **University of Liverpool, UK**  
Major in Mathematical Science, GPA 3.61/4.0  
First Class Honours
- 2020 - 2021**      **University College London, UK**  
Major in Computational Finance, GPA 4.0/4.0

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### PROFESSIONAL EXPERIENCE

- 07/2018 - 08/2018**      **Intern at Tesla-Automobile Sales Servicshop 4S, Jilin, China**
- Intern in Sales department.
  - Interacted with staff and received instruction from them.
  - Collected information from customers and potential customers.
  - Communicated with customers frequently to make sure their requirements were being met.
- 01/2019 - 02/2019**      **Jilin Ruiyi Medical Supplies Co. LTD, Jilin, China**
- Lead the project team to complete sales trend analysis, profit analysis of each product line and sales growth analysis of VIP customers by category.
  - Used Machine Learning model to make prediction.
  - The report discussed 156 suppliers, 80 sales customers, more than 100,000 sales data and had a sales value of 530 million in three years.
  - At the AGM in March 2019, that sales analysis provided a clear and effective data basis for the company's operating decisions and was unanimously praised.
- 07/2019 - 08/2019**      **Beijing TRS IT Co., Jilin, China**
- Participated in an environmental installation project for the Jilin government.
  - Helped extract, clean, visualise and analyse over 10 million rows of data and give reports.

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### PROJECT EXPERIENCE

- 01/2020 - 01/2021**
- X-ray photograph covid-19 identification
  - Human Protein Multi Label Image Classification
  - Applying reinforcement learning to defend against adversarial examples in autonomous driving
- 01/2021 - 09/2021**
- Peer-to-peer loan default detection
  - Designing new algorithms to handle unbalanced datasets
  - Application of generative models in information security

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### ADDITIONAL INFORMATION

- Silver medal in the National Olympiad in Mathematics in China
- Several Kaggle competition experience (Machine Learning, Data mining, Data visualisation).
- Examined Python and R programming and data mining projects

**LANGUAGES**      Chinese (native), English (fluent)