

# Yizirui FANG

Phone: +86 17762570926 | Email: scyyf1@nottingham.edu.cn  
LinkedIn: linkedin.com/in/yizirui-fang-b24968189 | WebSite: https://circletreef.github.io/

## EDUCATION

### The University of Nottingham Ningbo China

Sep 2018 - Jun 2022

Bachelor of Science (Hons) in Computer Science

GPA: 3.9/4.0 Expected Degree: First Class with Honors

Certification: Dean Scholarship, Outstanding Youth League Member

Core Courses: Programming and Algorithm (86), Fundamentals of Artificial Intelligence, Database and Interfaces, Programming Paradigms

Programming Skill: Proficient use of C, MATLAB, Java, MySQL, Haskell, HTML, CSS and JavaScript

### Imperial College London

Jul 2019 - Jul 2020

Machine Learning and Applied Statistic Summer School

GPA: 3.7/4.0

## RESEARCH EXPERIENCE

### Research Intern in Conformal Predictor

May 2020 - Sep 2020

Student Intern

- This research project is supervised by Dr Anthony Graham Bellotti, associated professor at the University of Nottingham Ningbo China, School of Computer Science.
- One journal paper is under work for this research project.
- Using Python, Numpy and Ski-kit learn, with experiments and statistics analysis, this research project addresses the problems to provide a modified version of the conformal predictor by overlapping the proper training set and the calibration set and recommendations on their use.
- Conformal predictors are useful algorithms for making predictions with confidence by predicting sets of values rather than making point predictions. They are reliable to some user-defined confidence level, so long as data is independent and identically distributed (iid).
- However, the size of the available data set may be limited. This leads to the research challenges in two directions: (1) to ensure that their predictions are optimally efficient, (2) how best to manage the allocation of data to those three sets whilst maintaining the reliability property.

## PROFESSIONAL EXPERIENCE

### Virtual Classroom Project Team

Sep 2020 - Present

Student Intern For Software

- Supervised by Vice Provost, Prof. May Tan-Mullins, focusing on the exploration of Virtual Reality technologies, Virtual Classroom aims at enhancing our teaching & learning experience at the University of Nottingham Ningbo China - moving towards the future.
- Develop, test and utilise the university's own customised and interactive virtual reality based on Unity3D with C#.
- Implement the movement, ball playing and strike, menu, multi-players synchronization features of the software with Photon Network.
- Adapt the desktop version of the software to mobile devices and HTC Vive Pro with Google VR and STEAM VR.

## PROJECT EXPERIENCE

### Distributed Road Network Monitoring System

Sep 2020 - Apr 2021

- This project is supervised by Dr Matthew Pike, assistant professor at the University of Nottingham Ningbo China.
- Lead the design, implement and testing of this project. Based on Django, Docker and PostgreSQL to develop the backend system to implement the client-server communication, database update, storage, account management. With the dynamical time wrapping algorithm to detect the abnormality on the road.
- Based on Flutter, develop the cross-platform mobile application to implement the collection and the transferring of the acceleration and GPS data.

### Mathematical Contest in Modelling

Mar 2020

- Honourable Mention Awarded
- In 4 days, together with the other two teammates and support from our advisor, we complete a 27-page report about simulating the success of the online product in Amazon by applying Linear Regression, ARIMA time series analysis and Bag of word model.

## LEADERSHIP EXPERIENCE

### Peer Mentor

Sep 2019 - May 2020

- Peer Mentor is established by the Department of Campus Life of the University of Nottingham Ningbo, China. This is a platform to allow excellent senior students to help freshmen.
- Organized meetings, class leaders' election and sharing sessions for the class of 45 students to strengthen their cohesion also made them familiar mutually. By organizing several sharing sessions ranging from academic and administrative issues, I successfully help these students get used to their freshmen life so far.

### ACCA Club

Sep 2018 - May 2019

Staff

- ACCA Club is a student organization attached to Nottingham University Business School, China and supported by ACCA officially. It serves the whole of eastern China in academic fields.
- Organized the 2018 Eastern China Industry Analysis Competition with teammates. I invited and helped more than 10 students from Nanjing Audit University be active in and complete the competition via WeChat Public Account.
- Organized the Kyle Item Exchange Competition. I designed the whole process of this competition and the marking guideline. This competition attracted about 100 students and engaged them in applying theory in practice.

## SKILLS, CERTIFICATIONS & OTHERS

- Skills:** Microsoft Office and Adobe Photoshop
- Languages:** CET-6