Yujie Dai

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Education

Population Health Data Science PhD	Sept 2022 – Present **Digital Health and Care CDT, School of Engineering Mathematics and Technology, University of Bristol, Bristol, England, UK** **Supervisor:** Prof Andrew Dowsey, Prof Raul Santos-Rodriguez, Dr Brian Sullivan **Project**: Explainable AI in Infectious Disease Diagnosis and Antibiotic Resistance Prediction
Artificial Intelligence *Master of Science* with **Distinction**	Sept 2021 – Sept 2022 **School of Computer Science** **University of St Andrews, St Andrews, Scotland, UK** **Supervisor**: Prof Simon Dobson **Dissertation**: Investigating the relationship between network properties and the spread of disease As a competent programmer and a junior researcher with prior knowledge and experiences of machine learning, I've joined this taught MSc program since Sept 2021. Key modules include Artificial Intelligence Practice, Object-Oriented Modelling, Software Engineering, Machine Learning, etc. My dissertation focuses on finding how the size and connectivity of networks affect the transmission process of diseases.
Software Engineering *Bachelor of Science*	Sept 2016 – Jul 2020 **School of Computer Science and Technology** **Beijing Institute of Technology, Beijing, China** **GPA**: 84/100	**IELTS**: 7.5 I got my Undergraduate degree in Computer Science at BIT and graduated as one of the top students in the School with GPA 84 out of 100. During my study at BIT, I've been awarded multiple prizes for academic excellence and for my work as a student volunteer. University Scholarship Award: Second Runner-up prize for academic year 2019 –2020. **University Scholarships:** 2nd Runner-up prizes for academic years 2016 – 2017, 2017 – 2018, 2018 – 2019, respectively.

Academic Experiences

Research Assistant	Jul 2020 – Aug 2021 **Graph Data and Blockchain Laboratory** **School of Computer Science and Technology** **Beijing Institute of Technology, Beijing, China** **Supervisor: Prof Rong-Hua Li** I've been working as a Research Assistant at Prof Li's lab after graduation and have participated in the static test platform project as a Web developer.

Project Experiences

Oct 2019 – Jan 2020	**Automatic Game-playing Based on Reinforcement Learning**

- Developed a maze game by utilizing Q-Learning algorithm

Jul 2019 – Oct 2019	**Search Engine Evaluation System**

- Conducted data pre-processing and feature extraction of NLP.

Mar 2019 – Jul 2019	**Postgraduate Enrollment Prediction System Based on Hadoop**

- Adopted user CF algorithm to build model based on MapReduce

Oct 2018 – Jan 2019	**Emotional Analysis and Prediction of User Behavior Based on Movie Review Text**

- Employed Python statement to conduct preprocessing, model training and model evaluation of MovieLens dataset.

Jul 2018 – Sept 2018	**Big Data on Health Care-Adolescents' Eyesight Protection System**

- Applied WeChat web developer tool to make front-end mini program interface of product client, aiming at calculating and predicting the probability and future trend of myopia among adolescents.

Working Experiences

Aug 2024 – Present	**Jean Golding Institute, UK** **Data Scientist (Part-time)** Support various research projects with data analysis, model training, experimental designs, and other technical support.
Aug 2019 – Aug 2020	**Bentley Systems (Beijing) Co., Ltd** **Project Management Intern** Participated in the Service Partner Program and User Advancement Program and took charge of data analysis, information statistics and related work of technical certification
Sep 2020 – June 2021	**Beijing Quchuangyi Technology Development Co.,Ltd Programming Teacher (Part-tme)** Teach programming for children aged 6-14, including Scratch, Python and c++

Other Activities

Aug 2019 – Nov 2019	**International Genetically Engineered Machine competition (iGEM) in 2019** **Team member for Gold Award Recipient**
Oct 2018 – Sept 2019	**Executive President** **The Student Union of School of Computer Science and Technology, BIT**
Sept 2018	**Organiser, Community Volunteering Services** **Student Volunteer, the 78th Anniversary of BIT**