Yuchao Tao
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EDUCATION

08/2016-06/2020 **Beihang University (Beijing University of Aeronautics and Astronautics)**
School of Economics and Management
Bachelor of Economics in Economic Statistics
Average score: 3.44 (4.00) (Top 25%)

09/2021-09/2022 **The London School of Economics and Political Science**
Department of Health Policy & Department of Statistics
Master of Science in Health Data Science

WORK EXPERIENCE

09/2019-08/2020 **Chinese Academy of Agricultural Sciences**
Research Assistant

- Joined the project "The Classification and Identification Technologies and their Application of Multi-species and Multi-origin based on Composition Characteristics"

- Carried out data pre-processing, visualization and comprehensive component extraction for the characteristic information of quality components

- Constructed the feature discrimination model of component data with the combination of component data analysis, machine learning, PLS-DA and other methods

- Made feather description and classification of quality components of different rapeseed from different producing areas

- Repeatedly tested the quality component characteristics discrimination model and realized its industrial application

03/2019-08/2019 **Chinese Academy of Agricultural Sciences**
Data Analyst

- Joined the research project "The Construction of Pesticide Residue Index System"

- Proposed a complete construction method of pesticide residue index based on the big data of pesticide residues detection of more than 100 kinds of vegetables in China from 2014 to 2018

- Made plan of the risk level and its threshold setting according to the basic properties of pesticide residue index

- Carried out application simulation of pesticide residue index, analysed the basic properties and theoretical threshold of pesticide residue index from the perspective of mathematical statistic theory, and wrote data analysis report from the perspective of application

- Wrote (as the second author) the thesis *Comprehensive Evaluation of Chinese Vegetable Pesticide Residues Based on Improved Nemerow Index*, which will be published in *Food Science*

ACHIEVEMENTS

04/2019 **Awarded as the Excellent Student Leader in the Student Union of School of Economics and Management, Beihang University**

06/2017 **Awarded as the Excellent Student Minister in the Zhizhen College of Beihang University**

ADDITIONAL SKILLS

IT SKILLS
- Data processing: proficient in R language, SQL, Hadoop
- Data analysis: proficient in R language (regression analysis, classification analysis, etc.), SQL
- Data visualization: proficient in R language (ggplot2)
- Data mining: proficient in R language and Python

EXTRA CURRICULAR ACTIVITIES

09/2016-06/2019 **Student Union of School of Economics and Management, Beihang University**
Chairman in Charge of Conference Department and Office

- Coordinated dozens of Boya lectures and high-end forums held by Beihang University for all students and faculty, with more than 10,000 students participating in total

- Was responsible for the planning and in-site implementation of two university sports meeting and the 60th anniversary of Beihang University