
Zhengtao Cai

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EUDCATION

THE UNIVERSITY OF EXETER

Exeter, UK

College of Engineering, Mathematics and Physical Sciences

2014.10-2017.06

Bachelor of Science in Mathematics

- CGPA: 3.7

Courses

The C family, Advanced Statistical Modeling, Statistical Inference, Bayesian Statistics, Philosophy and Practice.
(and other pure Mathematics modules)

RESEARCH EXPERIENCE

Predictability of quasi-biennial oscillation

Exeter, UK

2016.09-2017.01

- Developed strong teamwork skills through helping each other with the different models.
- Study the quasi-biennial oscillation (QBO) by looking into the “Quasi-Binomial generalized linear model (GLM)”, the “Gaussian Process (GP) model” and the “Delay-embedding model” using 60 years of data.
- Analyzed the effects of QBO in diverse industries via referring to literatures and discussing with the industry experts; looked for scientific principles of the occurrence of QBO.
- Increased the abilities of gathering, processing and analyzing data.

INTERNSHIP EXPERIENCE

SHANGHAI SUNTIME INFORMATION TECHNOLOGY

Shanghai, China

Member of Product Researching & Developing Department

2016.07-2016.08

- Verified operational information for financial products, including fund managers' background, corporations' type and state of operation.
- Assisted the supervisor to compile business reports, and gained composure to how to analyze these data.
- Conducted research on Risk Parity Portfolio by reading related literature and explained the principle of the portfolio to colleagues.

SKILLS & INTEREST

Language skills: Native in Chinese; Fluent in English

Experience in R, C, C++ and Python