Fan Cheng

Curriculum Vitae
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Education and qualifications

2019–	Ph.D. in Statistics	Monash University, Australia
2016–2018	M. in Applied Statistics	Central University of Finance and Economics, China
2012–2016	B.Ec in Statistics	Central University of Finance and Economics, China

Employment history

2020.07– **Teaching Associate**, Department of Econometrics and Business Statistics, Monash University
- ETC5523 Communicating with data, 2021S2
- ETC5513 Collaborative and reproducible practices, 2021S1, 2022S2
- ETF3500/ETF5500 High Dimensional Data Analysis, 2020S2, 2021S2

2019.07– **Data Fluency Associate Instructor**, Library Research Division, Monash University Library
- Monash Data Fluency workshops on R, Python, Git, Unix, HPC, etc.

2020.07–2020.12 **Course Mentor**, Monash University Online Microcredential *Data Science: Data-Driven Decision Making*

2018.07–2019.01 **Research Assistant**, School of Statistics and Mathematics, Central University of Finance and Economics

Internship experience

2016.09–2017.09 **Big Data Analyst**, Shanghai Power Xene Digital Technology Company, Beijing, China
2016.03–2016.04 **Research Assistant**, China Life Insurance Company Limited, Beijing, China
2015.01–2015.02 **Consultant Assistant**, Industrial and Commercial Bank of China (ICBC), Hubei, China

Research experience

2019.02– **Main Participant**, Monash Ph.D. project: Manifold Learning on Empirical Probability Distributions
- ➤ Supervised by Prof. Rob J Hyndman and Associate Prof. Anastasios Panagiotelis.
- ➤ Successfully completed the confirmation and the mid-candidature milestones.
- ➤ Completed the main algorithm and finished all experiments using MonARCH HPC Cluster.
- ➤ Submitted the working paper titled *Computationally Efficient Learning of Statistical Manifolds*.

2018.07–2019.01 **Research Assistant**, National Natural Science Foundation of China
- ➤ Assisted in the Efficient Bayesian Flexible Density Methods with High Dimensional Financial Data Project.
- ➤ Completed the stochastic gradient descent application to the multivariate response surface.
- ➤ Completed the paper titled *Volatility Analysis for Housing Prices with Bayesian Response Surface Optimization*.

2013.04–2014.04 **Main Participant**, National Undergraduate Innovation and Entrepreneurship Training Program
- ➤ Initiated a municipal project, made overall arrangements for the project, from research proposal, project fund application, plan of the theoretical approaches and empirical analysis of the questionnaire data.
- ➤ Won the Excellent Prize upon the accomplishment of the research project.
- ➤ Completed the paper titled *Feasibility Analysis for Developing Commercial Insurance for Losing Only-child Problem*.

Honours and awards

2021	Runner-up for AMSI Winter School Participants Talk, Australian Mathematical Sciences Institute
2021	ACEMS Business Analytics Prize($3000) for 2021, ARC Centre of Excellence for Mathematical & Statistical Frontiers
2019	Monash Graduate Scholarship, Monash University, yearly from 2019 to 2022
2019	Monash International Tuition Scholarship, Monash University, yearly from 2019 to 2022
2018	Outstanding Postgraduate Student, Central University of Finance and Economics (CUFE)
2017	First Prize Academic Scholarship for Graduate Student, CUFE
2016	Outstanding Undergraduate Student, CUFE
2016	Scholarship for All-Round Development, CUFE, yearly from 2013 to 2016
2016	Scholarship for Excellent Academic Innovation, CUFE
2015	Excellent Prize in National Undergraduate Statistical Contest in Modeling, Statistical Education Society of China
2015	Second Prize in National Undergraduate Mathematical Contest in Modeling
2015	National Endeavor Scholarship, Ministry of Education of Beijing
2014	Scholarship for Excellent Student Cadre, CUFE
2013	Excellent Student Cadre, School of Statistics and Mathematics, CUFE