

Fan Cheng

Curriculum Vitae
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Education and qualifications

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

Employment history

2020.07–	Teaching Associate , Department of Econometrics and Business Statistics, Monash University
2020.07–	Course Mentor , Monash University Online Microcredential <i>Data Science: Data-Driven Decision Making</i>
2019.07–	Data Fluency Associate Instructor , Library Research Division, Monash University Library
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

Honours and awards

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, each year from 2013 to 2016
2016	Scholarship for Excellent Academic Innovation
2015	Second Prize in China Undergraduate Mathematical Contest in Modeling
2015	National Endeavor Scholarship, Ministry of Education of Beijing
2014	Scholarship for Excellent Student Cadre
2013	Excellent Student Cadre, School of Statistics and Mathematics, CUFE

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 first milestone in Feb 2020.
- Completed the main algorithm and finished all experiments using MonARCH HPC Cluster.
- Drafted the working paper titled *Manifold Learning with Approximate Nearest Neighbors*.

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 **Project Leader**, National Undergraduate Innovation and Entrepreneurship Training Program

- Initiated a municipal project, took charge of making overall arrangements for the project, from research topic design, official application of the project fund, plan of the theoretical approaches and research methods to the empirical analysis of the data collected from questionnaire.
- 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 of Single-child Families*.