# **Fan Cheng**

Curriculum Vitae July 2021 • Department of Econometrics & Business Statistics, Monash University, VIC 3145, Australia.

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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

ETC5513 Collaborative and reproducible practicesETF3500/ETF5500 High Dimensional Data Analysis

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 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 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 of Single-child Families.

#### **Honours and awards**

2021	ACEMS Business Analytics Prize	for 2021 ADC Contro of E	iveallanca for Mathamatic	al S. Statictical Eroptions
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- 2019 Monash Graduate Scholarship, Monash University
- 2019 Monash International Tuition Scholarship, Monash University
- 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, 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