# **Fan Cheng**

Curriculum Vitae May 2024 Sydney, Australia.★ fancheng.me✓ fancheng.me@gmail.com✓ @fanchengfc

ffancheng fan-cheng

### **Education and qualifications**

2019–2023 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**

2022.10- Senior Research Officer, NSW Bureau of Crime Statistics and Research, Department of Communities and Justice 2020.07-2023.07 Teaching Associate, Department of Econometrics and Business Statistics, Monash University

- ETC5523 Communicating with data, 2021S2 (Purple Letter for Outstanding Unit Evaluation of Teaching)

- ETC5513 Collaborative and reproducible practices, 2021S1, 2022S1, 2023S1 (Purple Letter)

- ETF3500/ETF5500 High Dimensional Data Analysis, 2020S2, 2021S2 (Purple Letter)

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	<b>Big Data Analyst</b> , 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**

2022 Graduate Research Completion Award (GRCA), Monash Univer	2022	Graduate Research	Completion Award	(GRCA). Monash Universit	v
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- 2021 Runner-up for AMSI Winter School Participants Talk, Australian Mathematical Sciences Institute
- 2021 ACEMS Business Analytics Prize 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