

RUAN SONGYANG

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Henry Fok Pearl Jubilee College, University of Macau, Macau, China

EDUCATION

**University of Macau (UM), Faculty of Business Administration,
B.S. Business Intelligence and Data Analytics** 2019-2023

Cumulative GPA: 3.8/4.0

**Xi'an Jiaotong University, School of Management,
Big Data Management and Application, Semester Exchange** Mar.-July,2021

Curricula: Data Structures and Algorithms, Java Programming, Optimization Theory, Applied Statistics Analysis, Network and Information Security, Discrete Mathematics, Principle of Electronic Business

**Peking University, College of Engineering
Globex Julmester Program, Summer School** July,2022

Courses: Sustainability Theory and Practices, Data Driven Techniques for e-Business

**Cornell University, Cornell Institute for China Economic Research (CICER)
CICER Summer Program in Business and Economics, Summer School** July-Aug.,2021

Sessions: R Programming, Behavioral Economics, Corporate Finance, Academic Research Seminars in Microeconomics, Talking with Lead Economist from the World Bank

RESEACH EXPERIENCE

**The Impacts of State and Local Taxation on Firm Location Decision
Winter School, CICER, Cornell University** Nov.2021-Feb.2022

Research Group Member

- Econometrics, covering OLS, RDD, DID, IV, GMM; introduction to research; and research seminars
- Use R, Python, and Stata showing the data patterns of tax rates, tax expenditures, and tax exemptions
- Use IV, IV Probit, IV Tobit model analyzing how competition between localities affects tax breaks and business location decisions
- Team Engagement Excellence Award

**How Can Travel Vloggers Shape Travel Destination Images
Faculty of Business Administration, UM** Dec.2021-Mar.2022

Supervisor: Prof. Fiona, Xi Yang

Research Assistant

- Crawl data in Python from video websites and analyze comments, users' profile
- Use natural language processing (NLP) tool to distinguish different languages and analyze sentiments

**High-Dimensional Financial Index Tracking Based on the Regularization Approach
Asia-Pacific Academy of Economics and Management, UM** Sept.2021-present

Supervisor: Prof. Jet, Lianjie Shu

Research Assistant

- Program in R to formulate thirty trading strategies with more than 70% win rate in American stock markets and Chinese stock markets in last 40 years
- Trading strategies adopt technical analysis, machine learning, and NLP techniques
- Use R Shiny package to do trading visualization and formulating a user interface website

EXTRACURRICULAR ACTIVITIES

Student, Summer School @ School of Economics, Fudan University Jun.-July,2022

- Course: Econometrics

Treasurer, Business Analytics Association, University of Macau Students' Union 2022

Student, Sun Yat-Sen University Guangdong-Hong Kong-Macao Greater Bay Area
Economic Development Seminars July-Aug.,2021
OM Young Friends, Macao Orchestra 2021-present
Voluntary teacher, Remote English courses for primary school students in Congjiang Sept.-Dec.,2020
Member, The Third Community Safe Youth Leadership Programme, Macau Judiciary Police 2020
• Anti-Crime education camp and Macau Customs visiting
Contestant, China-Korea University Calligraphy Competition 2020
Volunteer, Pangolin Conservation Campaign, Changsha Wildlife Conservation Association Aug.,2020
• Chinese medicine market investigation on Pangolin scale
• Propagate Pangolin conservation information on electronic media
Member, University of Macau Postgraduate Association Calligraphy Club 2019-present
• Organize soft/hard pen calligraphy competition in UM
• Organize calligraphy tutorship each week by inviting famous Macau calligraphers
• Visiting renowned Macau calligrapher
College Badminton Team, Henry Fok Pearl Jubilee College, University of Macau 2019-present
• Champion of 2021 CICA Masters' Cup - Badminton Competition
Student, First-Aid Certificate by Macau Society of Emergency and Critical Care Medicine 2019

HONOURS AND STIPENDS

Dean's Honour List	2019-2022
University of Macau Student Research Assistant Stipends	2022
University of Macau Exchange Scholarship	2021
University of Macau Summer School Sponsorship	2021
Luso International Bank Whole Person Development Scholarship	2020
University of Macau Residential College Foundation Scholarship	2020
The Gold Award of Whole Person Development Program for 2019/20 academic year	2020

SKILLS

Certificate: (Coursera)

Mathematics for Machine Learning: Linear Algebra, Imperial College of London

Introduction to GIS Mapping, University of Toronto

Differential Equations for Engineers, The Hong Kong University of Science and Technology (HKUST),
in Progress

Numerical Methods for Engineers, HKUST, in Progress

Language:

TOEFL 98; CATTI Chinese-English Translation III; Fair in Cantonese; Basic in Japanese and German

Computer:

Python, R, Java, C/C++, SQL, Hadoop, Hive, \LaTeX

Microsoft Office, Access, Visio, Project; SPSS, Stata; Linux