

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: 3.77/4.00
Xi'an Jiaotong University, School of Management,
Big Data Management and Application, Semester Exchange Mar.-July,2021
Cumulative GPA: 86/100
Curricula: Data Structures and Algorithms, Java Programming, Optimization Theory, Applied Statistics Analysis, Network and Information Security, Discrete Mathematics, Principle of Electronic Business
Cornell University, Cornell Institute for China Economic Research(CICER)
CICER Summer Program in Business and Economics, Summer School July-Aug.,2021
Grade: A
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 Nov.2021-Feb.2022
Winter School, CICER, Cornell University
Research Group Member

- Econometrics courses (OLS, RDD, DID, IV, GMM), introduction to research, and research seminars
- Program in 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

What constitutes a favorable destination brand portfolio? Through the lens of coherence
Faculty of Business Administration, UM Dec.-Mar.2021
Supervisor: Prof. Fiona, Xi Yang
Research Assistant

- Crawl data in Python from video websites and analyze comments, users' profile
- Use natural language processing 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 more than twenty trading strategies with more than 70% win rate in American stock markets and China markets in the last 40 years
- Use R Shiny package to do trading visualization and formulating a user interface website

EXTRACURRICULAR ACTIVITIES

Group Member,
Bank of China Trophy One Million Dollar Macao Regional Entrepreneurship Competition 2022

- High Frequency Trading System Based on Machine Learning

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:

Mathematics for Machine Learning: Linear Algebra, Imperial College of London, via Coursera
Introduction to GIS Mapping, University of Toronto, via Coursera

Language:

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

Computer:

Python, R, Java, C/C++, SQL, Hadoop, \LaTeX
 Microsoft Office, Access, Visio, Project; SPSS, Stata; Linux