

Yimeng Ren

Room 406, Zhixing Building 3, No.59 St. Zhongguancun, Haidian, Beijing, China, 100872

Tel: (86)18992895118 | Email: melodyren_1998@hotmail.com

EDUCATION

Renmin University of China | Bachelor in Economics

School of Statistics | Economic Statistics

09/2016-06/2020

- Overall GPA: **3.86**/4 (Rank: **2**/42)
- Thesis: Image Target Detection Based On Deep Neural Network (score: 90/100)
- Selected Honors and Awards:
 - 2020 Municipal Outstanding Graduate 2020
 - Excellent Scholarship, Renmin University of China (Top 3) 2017-2020
 - Merit Student, Renmin University of China (Top 3) 2017-2020

Renmin University of China | Master in Applied Statistics

09/2020-06/2022

- Research Interest: Network Analysis; Recommender System; Graph Neural Network

TECHNIQUES AND SKILLS

Programming and Software: R, Python, Java, C, Scala, SQL, Latex, Tableau

Deep Learning Tools: TensorFlow, Keras

Coursera Online: Algorithms and Data Structure (Princeton), Machine Learning Foundations (NTU)

English Skills: TOEFL: 108(23); GRE: 324 + 4

PUBLICATIONS & BOOKS

Graphical Assistant Grouped Network Autoregression Model: a Bayesian Nonparametric Recourse (Submitted)

Yimeng Ren, Xuening Zhu*, Guanyu Hu

<https://arxiv.org/abs/2110.04991>

Robot target recognition using deep federated learning

International Journal of Intelligent

Systems

Bin Xue*, Yi He, Feng Jing, Yimeng Ren, Lingling Jiao, Yang Huang

<https://doi.org/10.1002/int.22606>

Dynamic coarse-to-fine ISAR image blind denoising using active joint prior learning

Bin Xue*, Yi He, Feng Jing, Yimeng Ren, Mei Gao,

International Journal of Intelligent Systems

<https://doi.org/10.1002/int.22454>

城市碳排放达峰和低碳发展研究:以上海市为例

Environmental Engineering, 2020

张哲, 任怡萌, 董会娟

<https://kns.cnki.net/kcms/detail/detail.aspx?dbcode=CJFD&dbname=CJFDLAST2021&filename=HJGC202011003&uniplat form=NZKPT&v=2bqQIWLHfC6qR6OGSmJodziK1kZ7rsMjSd7X4MmYNujFeiHmou5iaoT58UCR%25mmd2BpbU>

《统计分析（以 R 语言为工具）》

Peking University Press

朱雪宁, 任怡萌, 米汶权, 张桂维

[Data & Code] <https://xueningzhu.github.io/Statistical-Analysis-with-R/index.html>

INTERNSHIP

Chinese Academy of Environment Plan *Student Data Analyst* 01/2020-07/2020

- Responsible for coding maintenance, to make project scripts reproducible.
- Visualization on geographical data, including the carbon emission and global gas emission trend.
- Published report: *Climate Change in Chang-Jiang River Delta Region*.
- Worked on evolutionary transition model for grid carbon emission in China.

Essence Securities Company *Macro-Econ Analyst Intern* 10/2019-12/2019

- Analyzed industrial research report.
- Grab required data from Wind and conduct in-depth analysis about development status of pension insurance in the middle Yangtze River economic zone of China.
- Reviewed literatures regarding factors affecting medium and long-term interest rates.

CluBear Group *Data Analyst Intern* 07/2018-12/2019

- Responsible for extracting business value by statistical models. Interesting topics: value preservation ratio of second-hand cars, lyrics exploration, graduate application analysis.
- Reviewed articles and wrote articles for introduction to deep neural network.
- Subsidiary occupation: crawled online data with R for analysis.

51Talk (NYSE: COE) *Dt. of Big Data Intelligence* 07/2018-09/2018

- Analyzed key factors for students' English level change, reports for colloques in product department.
- Developed a teacher evaluation system with R to visualize the teachers' excellence.
- Assist build the BI platform and made some interactive visualization using R shiny.
- Explored the teacher recruit flow and actively discussed the improvement company database.

Hua Life Insurance Company *Dt. of Product Actuary* 01/2018-02/2018

- Built the pricing model for a new life insurance product with Excel VBA.

COMPETITION

Contemporary Undergraduate Mathematical Contest in Modeling-2018 First Prize in Beijing

- Implement the depth-first search algorithm with Python, and designed scheduling scheme of dispatching.

Big Data Modeling Competition-2018, Renmin University of China Outstanding Award

- Implement user-based collaborative filtering algorithm with R and designed music recommendation system.

COURSE PROJECT

Book price prediction based on statistical machine learning

- Applied XGBoost classifier and tree model to improve the accuracy of traditional linear regression model

Funny-face Web Page Design

- Called the Microsoft Azure API to extract the face part from input photos and pre-process the face part
- Use R Shiny to create interactive web pages and customize CSS files to optimize the user experience

SOCIAL RESPONSIBILITY

- Chair of 12th China-R Conference, Beijing (<https://china-r.org/>) May. 2019
- Core member of the Secretarial Group of the 11th China-R Conference (Beijing, Shanghai, Guangzhou) May-Dec. 2018
- Core editor member in Capital of Statistics (<https://cosx.org/>) 2017-Present

EXTRACURRICULAR ACTIVITIES

- Won the Excellence Award in the 1st Bookdown Contest; Used R Bookdown to design the graduation thesis template of Renmin University of China Oct. 2018
- Participated in the "Mingde Data" talent growth support plan of Renmin University of; Participated in the 2018 Big Data and Business Intelligence Seminar and Cross-Strait Statistical Analysis Seminar Apr. 2018
- Volunteered for the registration of international students; Volunteered for the International Cultural Festival of Renmin University of China; Volunteered for China R Conference (Beijing) Oct. 2017
- Finishing the 2017 Beijing Women's Half Marathon Sep. 2017