

# MINGZE "RICO" HUANG

## ABOUT

I'm doing Computational Statistics, Econometrics, Package Development for R and Python, Statistical Machine Learning, Parallel Computing on HPC

## EXPERIENCE

- **Bohai Property Insurance Co. Ltd**  
Tianjin, China 2012 - 2014
  - Data Analyst
- **Texas A&M University**  
College Station, Texas 2016 - 2022
  - As **Teaching Assistant** for:
    - ECMT460/660: Mathematical Economics;
    - ECMT674: Economic Forecasting;
    - ECON675: Capstone for Financial Economics / Financial Econometrics;
    - ECON330: Economic Development;
    - ECON612: Money, Banking and Financial Market;
    - ECON203: Principle of Economics;
    - ECON611: Foundation of Macroeconomic Theory;
    - ECMT461: Economic Data Analysis;
    - **ECEN360/STAT315: Special Topics: Computational Data Science**
  - As **Instructor** for:
    - **ECON459: Games & Economic Behavior**
    - **ECON410: Macroeconomic Theory**
- **Eonum Inc. (Contract)**  
Remote 2022 - 2023
  - As **Consultant (Data Scientist)**: Stock market data analysis and event study using R and Python.
- **Freelance Statistician**  
Remote 2023
  - Help Ophelia Riego Health Fund, LLC. build R and Python packages for automatic high-frequency trading analysis to significantly reduce the workload of analysts.

## EDUCATION

2012

- **Nankai University**  
BSc. and MSc. in Economics Tianjin, China



## CONTACT INFO

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github [@mingzehuag](https://github.com/mingzehuag)  
linkedin [Mingze \("Rico"\) Huang](#)  
twitter [@mingze\\_rico](#)  
GoogleScholar [Mingze Huang](#)  
ReserchGate [Mingze Huang](#)

## SKILLS

 Bash  github  Ubuntu  
 R  Python  C  
 MySQL  Amazon AWS  
 Keras  numpy  SciPy  
 pandas  Plotly  
 scikit-learn  TensorFlow

Last updated on 2023-07-17.

- 2014 • **Tel Aviv University**  
Summer Institute 📍 Tel Aviv, Israel
- 2016 • **Texas A&M University**  
MSc. in Economics 📍 College Station, Texas
- 2022 • **Texas A&M University**  
MSc. in Statistics (Statistical Data Science) 📍 College Station, Texas
- 2022 • **Texas A&M University**  
PhD. in Economics (Dissertation Advisor: Irina Gaynanova)  
Dissertation: Estimation of Latent Correlations between Mixed Types  
of Measurements With Applications in Social-Economic Research  
📍 College Station, Texas






## 📄 PEER-REVIEW PUBLICATIONS

- 2021 • **latentcor: An R Package for estimating latent correlations from mixed data types** *Journal of Open Source Software*, 6(65), 3634  
Mingze Huang, Christian L. Müller, Irina Gaynanova  
📍 College Station, Texas  
JOSS 10.21105/joss.03634 arXiv 2108.09180

## 💻 SOFTWARE

- 2020 • **acpc: An R Package with Shiny App for Area Classification based on Census Data**  
Mingze Huang 📍 College Station, Texas  
R v1.0.0
- 2021 • **latentcor: An R Package for estimating latent correlations from mixed data types**  
Mingze Huang, Grace Yoon, Christian L. Müller, Irina Gaynanova  
📍 College Station, Texas  
CRAN v2.0.0 R license GPL-3 R v2.0.1  
license GPL-3.0 website up  
supplementary material september 2021
- 2021 • **latentcor: A Python Package for estimating latent correlations from mixed data types**  
Mingze Huang, Christian L. Müller, Irina Gaynanova  
📍 College Station, Texas  
PyPI v0.2.4 website up build passing codecov 81%  
last commit may


2022

- **mixedCCA: Sparse Canonical Correlation Analysis for High-Dimensional Mixed Data**  
Grace Yoon, **Mingze Huang**, Irina Gaynanova  College Station, Texas  
 1.6.2 – 2022-09-09  license   v1.6.2



## MEDIA COVERAGE


2021

- **latentcor: An R Package for estimating latent correlations from mixed data types.**  
[Computers](#)  NEWSBREAK





## WORKING PAPERS

2021

- **latentcor is a Python Package for Aggregated Cell-type Level Data Analysis**  
**Mingze Huang**, Christian L. Müller, Irina Gaynanova.  
 College Station, Texas

2022

- **Genetic background affects mouse responses to the Lyme disease pathogen.**  
Artem Rogovsky, Scott Crawford, **Mingze Huang**.  
 College Station, Texas  
 last commit **january 2022**

2022

- **The Efficacy of COVID Government Response Policy: Application of Estimating Latent Correlations between Serially Correlated Mixed Data**  
**Mingze Huang**, Irina Gaynanova, Christian L. Müller  
 College Station, Texas

2022

- **PCA with Latent Correlation**  
**Mingze Huang**, Irina Gaynanova  College Station, Texas



## PEER-REVIEW SERVICES

2021

- **[Journal of Open Source Software](#)**  
[@mingzehuang](#)  Online

2022

2021


- **[PLOS One](#)**  
Mingze Huang  Online

2022



## FELLOWSHIP/AWARDS

2016

- **Texas A&M University**  
PhD Teaching/Research Assistantship, Dissertation Fellowship,  
International Texas Public Education Grant  
 College Station, Texas

2022



## PROFESSIONAL ASSOCIATIONS

2021 -



**ASA**

American Statistical Association

📍 USA

2022 -



**IEEE**

Institute of Electrical and Electronics Engineers

📍 USA