

# MINGZE (RICO) HUANG

## ABOUT

I'm doing Computational Statistics, Package Development for R, Python and Julia, Machine Learning (Classic and Deep Learning), Parallel Computing on HPRC, Bioinformatics, Crypto Mining

## EXPERIENCE

2016  
|  
2022

### Teaching Economics

Texas A&M University

College Station, Texas

• 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;

• As **Instructor** for:

- [ECON459: Games & Economic Behavior](#)
- [ECON410: Macroeconomic Theory](#)

2022

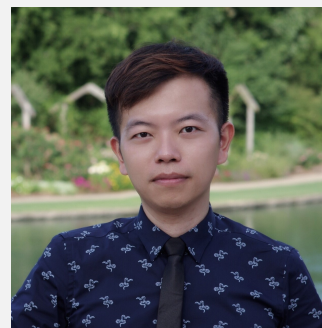
### Teaching Assistant for Data Science

Texas A&M University

College Station, Texas

• **ECEN360/STAT315: Special Topics: Computational Data Science**

- Apply basic statistical concepts that are used in data science;
- Carry out data science projects systematically;
- Apply simple statistical techniques for data analysis;
- Create and manage an **open source software environment** for data science projects;
- Design non-trivial data science projects with **Python**;
- Apply open source tools to read, update, and write **JSON, CSV, XML** and other structured data formats;
- Retrieve data with simple **SQL** and **NoSQL** queries;
- Explore a data set with **limited contextual information** to get insight through analysis and **visualization**;
- Create, train, and deploy common **machine learning** models with **scikit-learn**;
- Create, train, and deploy simple **deep learning** models with **TensorFlow**;
- Carry out **big data** analysis.



## CONTACT INFO

<https://orcid.org/0000-0003-3919-1564>

email [mingzhuang@gmail.com](mailto:mingzhuang@gmail.com)

website [mingzhuang.github.io](https://mingzhuang.github.io)

github [@mingzhuang](https://github.com/mingzhuang)

linkedin [Mingze \(Rico\) Huang](#)

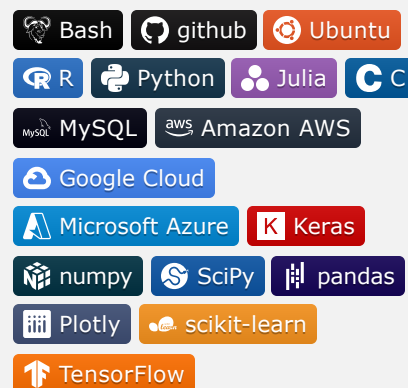
twitter [@mingze\\_rico](#)

GoogleScholar [Mingze Huang](#)

ReserchGate [Mingze Huang](#)

Kaggle [Mingze \(Rico\) Huang](#)

## SKILLS



Last updated on 2022-02-09.



## EDUCATION

- 2012 • **Nankai University**  
BSc. and MSc. in Economics 📍 Tianjin, China
- 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 (Advisor: Irina Gaynanova) 📍 College Station, Texas
- 2022 • **Texas A&M University**  
PhD. in Economics (Dissertation Advisor: Irina Gaynanova)  
Dissertation: Essays in Statistical Machine Learning and Software  
Development for 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 v1.2.0 R license GPL-3  
DOI 10.5281/zenodo.5517823 R v1.2.0  
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

TestPyPI v0.1.3 website up build passing  
📈 codecov 81% 🔄 last commit january

2022 • **latentcor: A Julia Package for estimating latent correlation of mixed data types**  
Mingze Huang, Irina Gaynanova  
📍 College Station, Texas

## 📰 MEDIA COVERAGE

2021 • **latentcor: An R Package for estimating latent correlations from mixed data types.**  
[Computers](#) 📍 NEWSBREAK

## ✍️ WORKING PAPERS

2021 • **latentcor is a Package for Aggregated Cell-type Level Data Analysis**  
Mingze Huang, Johannes Ostner, Christian L. Müller, Irina Gaynanova.  
📍 College Station, Texas

2021 • **The Application of Canonical Correlation Analysis for Mixed Data Types in Social Science and Public Health Policy.**  
Mingze Huang, 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 • **The Role of Simultaneity of Venture Capitalists' Coopetition on Start-up Exit.**  
Xiaolei Wang, Yan Zhong, Mingze Huang 📍 College Station, Texas

## 🔍 PEER-REVIEW SERVICES

2021 | 2022 • **[Journal of Open Source Software](#)**  
[@mingzehuang](#) 📍 Online

2021 | 2022 • **[PLOS One](#)**  
Mingze Huang 📍 Online



## FELLOWSHIP/AWARDS

2016  
|  
2022



### **Texas A&M University**

PhD Teaching/Research Assistantship, Dissertation Fellowship,  
International Texas Public Education Grant

📍 College Station, Texas



## PROFESSIONAL ASSOCIATIONS

2021 -



### **ASA**

American Statistical Association

📍 USA

2022 -



### **IEEE**

Institute of Electrical and Electronics Engineers

📍 USA

2022 -



### **RSS**

Royal Statistical Society

📍 UK