

# MINGZE "RICO" HUANG

## ABOUT

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

## 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.

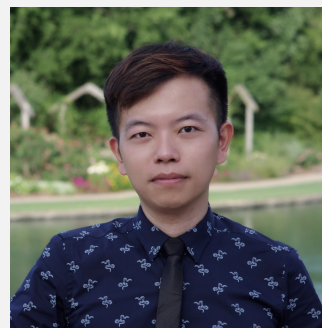
## EDUCATION

2012

### Nankai University

BSc. and MSc. in Economics

Tianjin, China



## CONTACT INFO

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

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

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

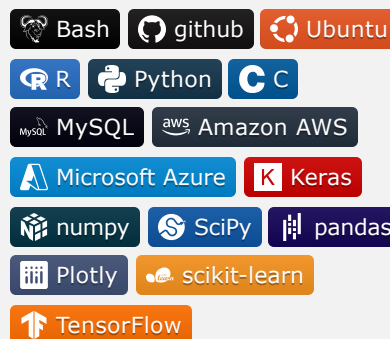
linkedin Mingze ("Rico") Huang

twitter [@mingze\\_rico](https://twitter.com/mingze_rico)

GoogleScholar [Mingze Huang](#)

ReserchGate [Mingze Huang](#)

## SKILLS



Last updated on 2022-08-26.

- 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 v2.0.0 R license GPL-3 R v2.0.0  
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  
PyPI v0.2.3 website up build passing codecov 81%  
last commit last wednesday



## 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, Christian L. Müller, Irina Gaynanova.  
📍 College Station, Texas
- 2021 • **The Application of Latent Correlation Estimation 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 Rogovskyy, 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