

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

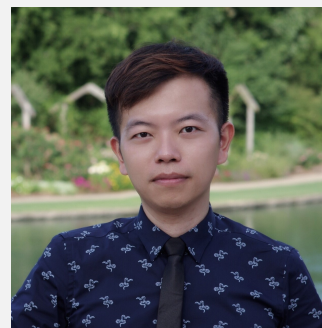
Teaching Assistant for Data Science

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

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

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website mingzhuang.github.io

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

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

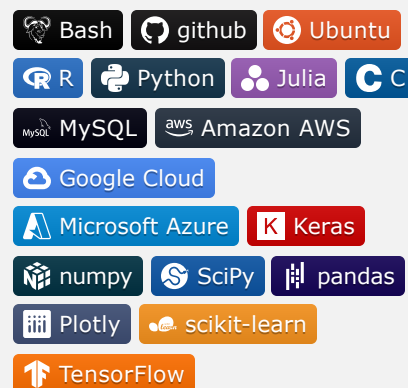
twitter [@mingze_rico](#)

Google Scholar [Mingze Huang](#)

ReserchGate [Mingze Huang](#)

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

SKILLS



Last updated on 2022-01-25.



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 today

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