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 mingzehuang@gmail.com
website mingzehuang.github.io
github @mingzehuang
linkedin Mingze (Rico) Huang
twitter @mingze_rico
GoogleScholar Mingze Huang
ReserchGate Mingze Huang
Kaggle Mingze (Rico) Huang

SKILLS

Bash github Ubuntu
R Python Julia C
MySQL Amazon AWS
Google Cloud
Microsoft Azure Keras
numpy SciPy pandas
Plotly scikit-learn
TensorFlow

Last updated on 2022-01-21.

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 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

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 Rogovskyy, Scott Crawford, **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