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)
Irvine, California   📍 2022 - 2023
• As **Consultant (Data Scientist)**: Stock market data analysis and event study using R and Python.

Ophelia Riego Health Fund, LLC. (Contract)
Carmichael, CA   📍 2023
• As **Statistician**: 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

🆔 https://orcid.org/0000-0003-3919-1564

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website   mingzehuang.github.io
github   @mingzehuang
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 2023-07-09.

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` `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

`CRAN` `1.6.2 – 2022-09-09` `license` `GPL-3` `R` `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 Rogovskyy, Scott Crawford, **Mingze Huang**.
📍 College Station, Texas

`last commit` `january 2022`

2022 ● **The Effecacy 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,
2022   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