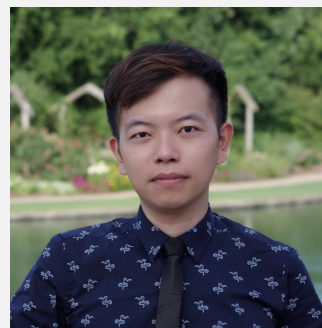# MINGZE "RICO" HUANG

☁ ABOUT

I'm doing Computational Statistics, 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.
Irvine, California   📍 2022
• As **Consultant (Data Scientist)** for Quantum Computing

• As **Consulting Manager (Data Scientist)** for Algorithmic Trading

🎓 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

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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   aws Amazon AWS
K Keras   numpy   SciPy
pandas   Plotly
scikit-learn   TensorFlow

Last updated on 2023-05-02.

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: 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` `september 2022`

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
|
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