

Miao Yu

25-09-1998, Female

Time series analysis · Functional data analysis · Seasonal and trend modelling · Machine learning · R

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Leibniz Universität Hannover, Hannover, 30167, Germany.

Education

Leibniz Universität Hannover : 2023.9 - PRESENT

- PhD : Economics
- Topic : Functional time series analysis for German energy data

Shandong University of Technology : 2020.9-2023.6

- Master : Applied Statistics

- Thesis : A study on clustering algorithms for multi-view data

Shandong University of Technology : 2016.9-2020.6

- Bachelor : Mathematics and Applied Mathematics
- Thesis : Locally repairable codes and its application

Courses (part)

PhD courses;

- Time Series Analysis
- Advanced Time Series Analysis
- Advanced Econometric Topics for Finance and Economics

Master courses; GPA 3.8/4

- Statistical Inference
- Multivariate Statistical Analysis
- Data Analysis and Statistics Software
(R, RStudio, Rmarkdown)
- Nonparametric Statistical Methods
- Stochastic Process
- Statistical Calculations

- Distributed and Cloud Computing
- Optimization Theory and Methods

Undergraduate courses; GPA 3.09/4

- Probability Theory
- Mathematical Statistics
- Operations Research
- Mathematical Model
- Numerical Analysis
- Advanced Calculus
- Linear Algebra
- Abstract Algebra

- Number Theory
- Analytic Geometry
- C/C++
- Physics
- Ordinary Differential Equation
- Mathematic and Physical Equation
- Complex Variable Function
- Differential Geometry
- Real Variable Function
- Topology
- Functional Analysis

Research and Writings

- Guangbao Guo, **Miao Yu**, Guoqi Qian, Online regularized K-means clustering for online multi-view data. *Information Sciences*. DOI: 10.1016/j.ins.2024.121133
- **Miao Yu**, Guangbao Guo, ORKM: An R package for online multi-view data, *R Journal*. (Revised)
- **Miao Yu**, Regularized K-means clustering for multi-view data, ICMMAP2022. *Journal of Physics: Conference Series*. IOP Science, 2023, 2381: 012036.
- **Miao Yu**, Yaping Li, Jieqiong Lu, Jiarui Li, Guangbao Guo, Updated multi-view data clustering after feature selection. (Under review)
- Jiaman Sun, Xiusen Li, **Miao Yu**, An empirical analysis of the economic growth factors of Huawei mobile phones based on the market concentration structure and related analysis methods, *Advances in Applied Mathematics*, 2021, 10(7): 2385-2390. (Chinese)
- Haozhe Li, Xiusen Li, **Miao Yu**, Empirical analysis based on correlation analysis and Cross-Correlation table analysis of college students' monthly consumption related factors, *Statistics and Application*, 2021, 10(4): 714-720. (Chinese)
- Guangbao Guo, Guoqi Qian, Yixiao Liu, Haoyue Song, **Miao Yu**, Optimal subset selection for distributed local principal component analysis, *Computational Statistics*. (Revised)

Projects

R package: ORKM

- Guangbao Guo, **Miao Yu**, Haoyue Song, Ruiling Niu, The online regularized K-means clustering algorithm, **R package version, May, 2024**
<https://CRAN.R-project.org/package=ORKM>