# Wenting Zhang

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## Summary

I am currently a Ph.D. candidate at the Department of Economics at Kobe University, supervised by Professor Shigeyuki Hamori. The main direction of my research is the time series analysis of financial market crises. I specialize in using econometric models such as ARMA-GARCH models, DCC-GARCH models, TVP-VAR models, Data mining techniques, and machine learning models such as XGboost, Random Forest. As of 2023, I have published five papers in major SSCI and SCIE journals and authored one book. One of my first-author papers is listed as highly cited paper over 180 times by Google Scholar.

## Research interest

Time series analysis, Machine learning, Data analysis

## Education

**Kobe University** — Rokkodai-cho Nada, Kobe, Hyogo, Japan
*Ph.D. candidate of Science in Economics* — *Apr 2021 –*

**Kobe University** — Rokkodai-cho Nada, Kobe, Hyogo, Japan
*Master of Science in Economics* — *Apr 2019 – Mar 2021*

**China Three Gorges University** — Yichang City, Hubei Province, China
*Bachelor of Arts in Japanese language* — *Sep 2014 – Jun 2018*

## Publications

- **Papers**

[1] **Zhang, W.**, He, X., & Hamori, S. (2022). Volatility spillover and investment strategies among sustainability-related financial indexes: Evidence from the DCC-GARCH-based dynamic connectedness and DCC-GARCH t-copula approach. *International Review of Financial Analysis, 83*, 102223. https://doi.org/10.1016/j.irfa.2022.102223

[2] **Zhang, W.**, & Hamori, S. (2021). THE CONNECTEDNESS BETWEEN THE SENTIMENT INDEX AND STOCK RETURN VOLATILITY UNDER COVID-19: A TIME-VARYING PARAMETER VECTOR AUTOREGRESSION APPROACH. *The Singapore Economic Review, 1–32*. https://doi.org/10.1142/s0217590822500023

[3] **Zhang, W.**, & Hamori, S. (2021). Crude oil market and stock markets during the COVID-19 pandemic: Evidence from the US, Japan, and Germany. *International Review of Financial Analysis, 74*, 101702. https://doi.org/10.1016/j.irfa.2021.101702

[4] **Zhang, W.**, & Hamori, S. (2020). Do Machine Learning Techniques and Dynamic Methods Help Forecast US Natural Gas Crises? *Energies, 13(9)*, 2371. https://doi.org/10.3390/en13092371

[5] **Zhang, W.**, He, X., Nakajima, T., & Hamori, S. (2020). How Does the Spillover among Natural Gas, Crude Oil, and Electricity Utility Stocks Change over Time? Evidence from North America and Europe. *Energies, 13(3)*, 727. https://doi.org/10.3390/en13030727

- **Books**

[1] Tadahiro Nakajima, Shigeyuki Hamori, Xie He, Guizhou Liu, **Wenting Zhang**, Yulian Zhang, & Tiantian Liu. (2021). *ESG investment in the global economy*. Springer. ISBN: 978-981-16-2990-7

## Experience

May. 2020-Feb. 2021 Research Assistant, Graduate School of Economics, Kobe University

Oct. 2021-Dec. 2021 Research Assistant, Graduate School of Economics, Kobe University

Apr. 2022-Aug. 2022 Teaching Assistant, Graduate School of Economics, Kobe University

Jan. 2023-Feb. 2023 Research Assistant, Center for Mathematical Data Science, Kobe University

Apr. 2023-Aug. 2023 Teaching Assistant, Graduate School of Economics, Kobe University

Apr. 2023- Membership, Western Economic Association International

## Skills

**Languages** : English, Japanese

**Programming** : R, python

## Awards and honors

Mar. 2020 Rokkodai Research Excellence Award, Kobe University

Mar. 2021 Rokkodai Research Excellence Award, Kobe University

Mar. 2023 Rokkodai Research Excellence Award, Kobe University

Apr. 2021-Mar. 2022 Scholarship Student, Otsuka Toshimi Scholarship Foundation

Apr. 2022-Mar. 2023 Scholarship Student, Otsuka Toshimi Scholarship Foundation