Jianhan Zhang

https://jianhzhang.github.io

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Research fields Last updated: November 17, 2023

Primary: Econometric theory;

Secondary: Applied Econometrics, Financial Econometrics.

Education

PhD in Economics Sep 2019 - Jan 2024(expected)

University of Guelph(Canada)

Committee: Thanasis Stengos(Chair), Yiguo Sun, Hong Li Thesis title: "Endogeneity on Threshold Regression Model"

M.A in Economics Sep 2016 - Aug 2019

Central University of Finance and Economics(China)

BA in Economics Sep 2012 - May 2016

Anhui University of Finance and Economics(China)

Working papers

Endogeneity kink threshold regression model

Jianhan Zhang, Chaoyi Chen, Yiguo Sun and Thanasis Stengos

(Job market paper) Resubmitted to JBES

• This paper considers an endogenous kink threshold regression model with an unknown threshold value in a time series as well as a panel data framework, where both the threshold variable and regressors are allowed to be endogenous. We construct our estimators from a nonparametric control function approach and derive the consistency and asymptotic distribution of our proposed estimators. Monte Carlo simulations are used to assess the finite sample performance of our proposed estimators. Finally, we apply our model to analyze the impact of COVID-19 cases on labor markets in the US and Canada.

Threshold regression model with mismeasured variables

Jianhan Zhang, Yiguo Sun

• In this article, we consider a threshold regression model with possibly mismeasured regressors. Following Lewbel (2012), we employ error heteroskedasticity to construct valid moment conditions. This method proves especially useful when instrumental variables or other side information are missing or unreliable. We propose a two-step GMM estimator as well as a robust estimator based on the median of means method to overcome possible heavy-tailed problems. We apply our approach to investigate the potential threshold relationship among investment, Tobin's q, and cash flow.

Endogeneity kink threshold regression model with linear control function

Jianhan Zhang, Chaoyi Chen, Yiguo Sun and Thanasis Stengos

• In this paper, we extend Hansen(2017) by allowing the endogeneity in a kink threshold regression model. We apply the linear control function approach and both the threshold variable and regressors are allowed to be endogenous.

Work in progress

Threshold regression model with non-classical measurement errors

Jianhan Zhang, Yiquo Sun

Panel Kink Regressions with Latent Group Structures

invited paper by econometrics

Chaoyi Chen, Jianhan Zhang, and Thanasis Stengos

Insurance market, natural disaster and economic growth-evidence from a threshold regression model

**Insurance Institute of Canada project(CS000252)*

Jianhan Zhang, Hong Li and Thanasis Stengos

Projects

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Dr. Thanasis Stengos S21; W22; W23; S23

Dr. Yiguo Sun F22

Dr. Kurt Annen
S21
Dr. Fred Liu
S22

Dr. Hong Li

Book revision F20-F21

with Prof. Ray Rees(LMU) and Prof. Mike Hoy

Mathematics for Economics 4ed

Referee

Empirical Economics $\times 2$

Teaching interests

Graduate Econometrics Theory, Applied Econometrics

Undergraduate Statistics, Econometrics, Financial Econometrics

Teaching

Lecturer for Economic Statistics(ECON2740)

F23 [Syllabus]

Conference

Economic students workshop(Guelph)

W22/W23

38th Canadian Econometrics Study Group Annual Meeting

F23

Technical skills

Tools R, Matlab, Python, Gauss, IAT_EX

Language

English Fluent Chinese Native

References

Dr. Thanasis Stengos(Chair)

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Dr. Yiguo Sun

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Dr. Hong Li

Professor of Economics University of Guelph lihong@uoguelph.ca $+1~519-824-4120\times58946$