Jianhan Zhang

https://jianhzhang.github.io

Address: 50 Stone Rd E, Guelph, ON Canada; N1G 2W1
E-mail: jzhang56@uoguelph.ca Phone: +1-519-731-4389

Research fields Last updated: October 16, 2023

Primary: Econometric theory; Secondary: Applied Econometrics, Financial Econometrics.

Education

PhD in Economics

Sep 2019 - Aug 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

(Job market paper)

Jianhan Zhang, Chaoyi Chen, Yiquo Sun and Thanasis Stengos

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

• We explore a threshold regression model that accommodates potential measurement errors in the regressors, offering valuable insights for the firm's investment model. It is imperative to account for both the mismeasurement of Tobin's Q and the potential threshold effects arising from financial constraints. In the field of econometric theory, we enhance the conventional linear model by incorporating a threshold structure and employing the robust estimator known as the Median of Means (MoM). This approach is designed to address potential issues associated with heavy-tailed data distributions.

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 endogeneity.

Work in progress

Projects

Research Assistant

Dr. Thanasis Stengos
Dr. Yiguo Sun
F22
Dr. Kurt Annen
S21; W22; W23; S23
F22
F23

Dr. Fred Liu

Dr. Hong Li

F23

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, LATEX

Language

English Fluent Chinese Native

References

Dr. Thanasis Stengos(Chair)

Professor of Economics University of Guelph tstengos@uoguelph.ca +1-519-824-4120×53917

Dr. Yiguo Sun

Professor of Economics University of Guelph yisun@uoguelph.ca

Dr. Hong Li

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