

Na Kyeong Lee

Curriculum Vitae

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EDUCATION

Ph.D. in Economics, University of Colorado 2010 -May 2015

Thesis Title: "Essays in nonparametric regression estimation in Besov spaces"

Principal Thesis Advisor: Professor Carlos Martins-Filho

M.A. in Economics, University of Colorado May 2012

B.S. in Economics and B.A. in Mathematics, University of Minnesota May 2007

RESEARCH FIELDS

Theoretical and Applied Econometrics, Empirical Finance

SELECTED PUBLISHED OR FORTHCOMING PAPERS

Quantile Dependence between Foreign Exchange Market and Stock Market: The Case of Korea (with Heejoon Han), *East Asian Economic Review*, Vol.20. No. 4, 2016

Assessment of Stakeholder's Attitude & Perception towards GM foods in South Korea: Implications for Differentiated Risk Communication & Media Management (with Kim and Song), *Journal of East and West Studies*, Vol.27, No.3, 2015

WORKING PAPERS AND WORK IN PROGRESS

"*Modeling the Dynamics between Stock Price and Dividend: An Endogenous Regime Switching Approach*" (with Heejoon Han) submitted

Abstract This paper considers a new model for stock price and dividend. The model is an error correction model with two distinct features. First, it adopts the time varying coefficient cointegration to explain the long-run relationship between stock price and dividend. Second, the model allows for regime switching with endogenous autoregressive latent factor. In such an endogenous regime switching model, the future transition between states depends on the current state as well as the realization of the underlying time series. The empirical application on the S&P 500 Index and dividend shows that it fits the data better than existing models. It is shown that the linear cointegration is not suitable to describe the long-run relationship between stock price and dividend and the error correction model with endogenous regime switching is better in explaining the data than one with the conventional Markov switching. Additionally, the latent factor extracted from our model specifically reveals the periods for each regime and the periods of high volatility regime includes the NBER recession periods and some periods with financial crisis.

“A Class of Local Constant Kernel Estimators for a Regression in a Besov Space” (with Martins-Filho and Mynbaev)

Abstract The use of higher order kernels is a well-known method for bias reduction of density and regression estimators. This method of bias reduction has the disadvantage of potential negativity of the underlying estimated density. To avoid this, Mynbaev and Martins-Filho(2010) pioneered a new set of nonparametric kernel based estimators for a density that achieves bias reduction by using a new family of kernels. In addition, Mynbaev and Martins-Filho(2014) obtained much faster convergence of nonparametric prediction by allowing fractional smoothness for the relevant densities. By extending both approaches, in this paper, we propose local constant estimators for regression which are more general than the Nadaraya-Watson (NW) estimator. The main contribution in this paper is that bias reduction may be achieved relative to the NW estimator, and our proposed estimators attain faster uniform convergence without using higher-order kernels and allowing for fractional smoothness for the relevant densities and regressions. We also provide consistency and asymptotic normality of the estimators in the class we propose. A small Monte Carlo study reveals that our estimator performs well relative to the NW estimator and the promised bias reduction is obtained, experimentally in finite samples.

“Kernel Density Estimation for Polarization Measure”

“A Class of Local Polynomial Estimators for a Regression in a Besov Space” (with Martins-Filho and Mynbaev)

TEACHING AND RESEARCH EXPERIENCE

Part-Time Lecturer Aug 2015-present
Hankuk University of Foreign Studies, Seoul

Research Fellow Sep 2015- Sep 2016
Sungkyunkwan University, Economic Institutes, Seoul

Intern June 2014 -Aug 2014
International Food Policy Research Institute (IFPRI)
Washington, D.C.

Instructor: University of Colorado-Boulder Fall 2014
Math Tools for Economists II

Teaching Assistant: University of Colorado-Boulder Fall 2010-Spring 2014
Principles of Microeconomics
Principles of Macroeconomics
Intro to Statistics with Computer Applications

FELLOWSHIPS AND AWARDS

Summer Graduate School Fellowship, University of Colorado-Boulder	2014
Graduate Assistantship, University of Colorado-Boulder	2010-present
Department of Economics Travel Grant, University of Colorado-Boulder	2013-2014
Graduate Assistantship, University of Iowa, Iowa City	2007-2009
Dean's list, University of Minnesota, Minneapolis	2004-2007

CONFERENCE AND SEMINAR PRESENTATION

International Conference in Regulatory Reform for Sustainable Economic Growth, Seoul	May 2016
The 17th KEA International Conference, Seoul	Aug 2016
The 2016 Korean Econometric Society Winter Meeting, Seoul	Feb 2016
The 10th International Symposium on Econometric Theory and Applications (SETA 2014), Taipei, Taiwan	May 2014
The 40th Annual Meeting of the Eastern Economic Association, Boston, MA	Mar 2014
The 83rd Annual Meetings of Southern Economic Association, Tampa, FL	Nov 2013
The 23rd Annual Meeting of the Midwest Econometrics Group, Bloomington, IN	Oct 2013
Econometrics Workshop, Boulder, CO	Oct 2013
The American Political Science Association Annual Conference, Washington, D.C.	Sep 2010
Midwest Political Science Association Annual Conference, Chicago, IL	Apr 2010
Midwest Political Science Association Annual Conference, Chicago, IL	Apr 2009

PROFESSIONAL AFFILIATION

The Korean Economic Association
The Korean Econometric Society
American Economic Association

REFERENCES

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