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Current Academic Appointments:

2016–present Associate Professor, Department of Economics, Syracuse University
2013–present Senior Research Associate, Center for Policy Research, Syracuse University

Previous Academic Appointments:

2018–2021 Melvin A. Eggers Faculty Scholar, Syracuse University
2016–2020 Director of Master’s Studies in Economics, Syracuse University
2013–2016 Assistant Professor, Department of Economics, Syracuse University
2006–2013 Assistant Professor, Department of Economics, University of Michigan
2009–2010 Visiting Fellow, Cowles Foundation for Research in Economics, Yale University
2013 summer Visiting Scholar, Summer Research Program, Economics, Sogang University
2011 August Visiting Professor, Economics, Kyoto University
2011 summer Visiting Professor, Economics, Yonsei University
2009 summer Visiting Professor, Business and Technology Management, KAIST
2008 summer Visiting Professor, Business and Technology Management, KAIST

Education:

2006 Ph.D. in Economics, Yale University
2004 M.Phil. in Economics, Yale University
2002 M.A. in Economics, Yale University
2001 M.A. in Economics, Seoul National University
1999 B.A. in Economics (*summa cum laude*), Seoul National University

Field of Interest: Econometrics

Panel Data Models

- semiparametric models; dynamic models; spatial dependence; panel treatment effects; robust estimation; heterogeneous agents

Big Data Analysis

- shrinkage estimation; model selection; model averaging; many (weak) instrument problems

Applied Econometrics

- social interaction; production function estimation; income polarization and crime; nonparametric threshold; risk preference

Publications:

1. "Trimmed Mean Group Estimation" (with D. Sul), 2022, *Advances in Econometrics*, Vol. 43B, 177-202.
2. "The Impact of Unmeasured Within- and Between-Cluster Confounding on the Bias of Effect Estimators of a Continuous Exposure" (with Y. Li, F.K. Port, and B.M. Robinson), 2020, *Statistical Methods in Medical Research*, Vol.29:8, 2119-2139. [PMID: 31694489]
3. "Nonparametric Estimation of the Marginal Effect in Fixed-Effect Panel Data Models" (with D. Mukherjee and A. Ullah), 2019, *Journal of Multivariate Analysis*, Vol. 171, 53-67.
4. "Olley and Pakes Style Production Function Estimators with Firm Fixed Effects" (with A. Stoyanov and N. Zubanov), 2019, *Oxford Bulletin of Economics and Statistics*, Vol. 81:1, 79-97.
5. "Adaptive Elastic Net GMM Estimation with Many Invalid Moment Conditions: Simultaneous Model and Moment Selection" (with M. Caner and X. Han), 2018, *Journal of Business & Economic Statistics*, Vol. 36:1, 24-46.
6. "Measuring Social Tension from Income Class Segregation" (with D. Shin), 2016, *Journal of Business & Economic Statistics*, Vol. 34:3, 457-471.
7. "Treatment Effects with Unobserved Heterogeneity: A Set Identification Approach" (with S.J. Jun and Y. Shin), 2016, *Journal of Business & Economic Statistics*, Vol. 34:2, 302-311.
8. "Model Selection in the Presence of Incidental Parameters" (with P.C.B. Phillips), 2015, *Journal of Econometrics*, Vol. 188:2, 474-489.
9. "On a Preference-Based Instrumental Variable Approach in Reducing Unmeasured Confounding-by-Indication" (with Y. Li, R. Wolfe, H. Morgenstern, J. Zhang, F. Port, and B. Robinson), 2015, *Statistics in Medicine*, Vol. 34:7, 1150-1168. [PMID: 25546152]
10. "Nonparametric Estimation of Dynamic Panel Models with Fixed Effects," 2014, *Econometric Theory*, Vol. 30:6, 1315-1347.
11. "Social Consequences of Economic Segregation" (with D. Shin and K. Shin), 2013, *Korean Economic Review*, Vol. 29:1, 189-210.
12. "Bias in Dynamic Panels under Time Series Misspecification," 2012, *Journal of Econometrics*, Vol. 169:1, 54-60.
13. "Hahn-Hausman Test as a Specification Test" (with R. Okui), 2012, *Journal of Econometrics*, Vol. 167:1, 133-139.
14. "Bringing 'Honest Capital' to Poor Borrowers: The Passage of the Uniform Small Loan Law, 1907-1930" (with B.G. Carruthers and T.W. Guinnane), 2012, *Journal of Interdisciplinary History*, Vol. 42:3, 393-418.
15. "Mobility-Based Explanation of Crime Incentives" (with D. Shin), 2012, *Korean Economic Review*, Vol. 28:1, 50-68.

Working Papers:

1. "Testing for Homogeneous Thresholds in Threshold Regression Models" (with Y. Wang), *R&R at Econometric Theory*.
2. "Threshold Regression with Nonparametric Sample Splitting" (with Y. Wang), *R&R at Journal of Econometrics*.
3. "Depth-Weighted Forecast Combination: Application to COVID-19 Cases" (with D. Sul), *R&R at Advances in Econometrics*.
4. "Dynamic and Non-Neutral Productivity Effects of Foreign Ownership: A Nonparametric Approach" (with M.E. Lovely and H. Pham), *R&R at Journal of Applied Econometrics*.

5. "LASSO for the Stochastic Frontier Models with Many Efficient Firms" (with W.C. Horrace and H. Jung), *R&R at Journal of Business & Economic Statistics*.
6. "Depth-Weighted Means of Noisy Data: An Application to Estimating the Average Effect in Heterogeneous Panels" (with D. Sul).
7. "Panel Nonparametric Conditional Heteroskedastic Frontiers with Application to CO2 Emissions" (with J. Cai and W.C. Horrace).
8. "Exporting and Business Stock Market Value" (with W. Lincoln).
9. "A Consistent Nonparametric Test for Endogeneity" (with S. Kim and A. Ullah).
10. "Fully Modified Least Squares Estimation of Factor-Augmented Cointegrating Regressions" (with C. Kao and S. Shen).
11. "Finite-Sample Improvement in Selecting the Number of Factors" (with C. Kao and J. Oh).
12. "Model Averaging k-Class Estimation with Many Instruments" (with Y. Zhou).
13. "Variable Omission and Pseudo-Spatial Dependence".
14. "Model Selection via SSE Ratio Criterion" (with H. Jung).
15. "A Grouped Mixed Proportional Hazard Model with Social Interactions: Analysis of Motorcycle Helmet-Use Law" (with J. Lee).
16. "Likelihood Ratio based Joint Test for the Exogeneity and the Relevance of Instrumental Variables" (with D. Kim).
17. "The Effects of Introducing Five-Day Work Week in Korean Labor Market: A Semiparametric Vector Error Correction Approach".
18. "Bootstrap Inference for Error Correction Models".

Awards, Grants, and Fellowships:

Collaboration for Unprecedented Success and Excellence Grant (PI), Syracuse University, 2019-2022
 Appleby-Mosher Research Grant (PI), Syracuse University, 2014, 2015, 2016, 2018, 2019, 2020, 2021
 Fellow, New York Camp Econometrics, 2018
 NRF Grant 2014S1A3A2044456 (Co-I), National Research Foundation of Korea, 2014-2016
 Livingston Research Scholar Award, University of Michigan, 2011
 Rackham Spring/Summer Research Grants (PI), University of Michigan, 2009
 Multimedia Teaching Grant (PI), CRLT, University of Michigan, 2007
 Dissertation Fellowship, Yale University, 2006
 Carl Arvid Anderson Prize Fellowship, Cowles Foundation, 2005
 Raymond Powell Teaching Prize, Yale University, 2005
 Cowles Foundation Summer Prize, Cowles Foundation, 2004
 Cowles Foundation Graduate Student Fellowship, Cowles Foundation, 2001-2005
 University Fellowship, Yale University, 2001-2005
 Japan-IMF Scholarship for Advanced Studies, IMF, 2001-2003
 Ilju Foundation Scholarship for Abroad Studies, Ilju Educational Foundation, Korea, 2001-2006
 U-San Graduate Scholarship, U-San Foundation, Korea, 1999-2001
 Scholarship for Honors, Seoul National University, Korea, 1995-2001

Invited Talks and Conference Presentations:

- 2020–2021 NY Camp Econometrics XV (Virtual); KAEA Seminar Series (discussant, Virtual); International Panel Data Conference 2021 (Virtual); 2021 Korean Economic Review International Conference (Virtual)
- 2019–2020 2020 North American Econometric Society Winter Meeting (San Diego, CA); Advances in Econometrics Conference in honor of Hashem Pesaran (Dallas Fed – postponed due to COVID-19); Advances in Econometrics Conference in honor of Joon Y. Park (Indiana U - postponed due to COVID-19); NY Camp Econometrics XV (Lake Placid, NY - cancelled due to COVID-19)
- 2018–2019 Syracuse U (Center for Policy Research); U of Rochester; Vanderbilt U; U of Connecticut; U of Texas-Dallas; KAIST
- 2017–2018 UC Riverside; UC Irvine; UCLA; McGill U; NY Camp Econometrics XIII (Bolton Landing, NY); Korea U; Seoul National U; 2018 KEA International Conference (Sungkyunkwan U); 24th International Panel Data Conference (Sogang U); 2018 Asian Meeting of the Econometric Society (Sogang U)
- 2016–2017 Korea Institute for Health and Social Affairs (*invited*, Seoul, Korea)
- 2015–2016 U of Guelph; International Conference on Econometrics (*invited*, Korea U), NY Camp Econometrics XI (Clayton, NY)
- 2014–2015 Syracuse U (Applied Statistics); Korea U; Sogang U; Yonsei U; NY Camp Econometrics X (Bolton Landing, NY); Present and Future of Econometrics in Korea (in Honor of Joon Y. Park, *invited*, Sungkyunkwan U); 2015 Korean Econometrics Camp (Seoul, Korea); International Conference on Frontiers of Theoretical Econometrics (in Honor of Donald W.K. Andrews, *invited*, U of Konstanz)
- 2013–2014 Sogang U; U of British Columbia; Queen's U; NY Camp Econometrics IX (*invited*, Watkins Glen, NY)
- 2012–2013 Michigan State U; U of Montreal; U of Pittsburgh; U of Alabama; U of Missouri; Syracuse U; SUNY-Binghamton; SUNY-Albany; 2012 Midwest Econometrics Group (U of Kentucky); 2013 North American Econometric Society Winter Meeting (discussant, San Diego, CA); 2013 International Symposium on Econometric Theory and Applications (*invited*, Sungkyunkwan U)
- 2011–2012 Indiana U; Rice U; Texas A&M U; 2012 North American Econometric Society Summer Meeting (Northwestern U); CIREQ Conference (*invited*, Montreal, Canada); 2011 Midwest Econometrics Group (U of Chicago, Booth); 2012 North American Econometric Society Winter Meeting (Chicago, IL)
- 2010–2011 U of Texas-Dallas; U of Michigan; Kyoto U; Yonsei U; Korea U; Sogang U; KAIST; 17th International Panel Data Conference (McGill U); 2011 North American Econometric Society Summer Meeting (Washington U-St. Louis); 2011 Asian Econometric Society Summer Meeting (Korea U)
- 2009–2010 Yale U (2 times); U of Virginia; Columbia U; Boston College; 16th International Conference on Panel Data (paper selected, U of Amsterdam)
- 2008–2009 Columbia U; U of Rochester; Purdue U; U of Western Ontario; Yonsei U; Seoul National U; Kyunghee U; Korea U; 25th Canadian Econometrics Study Group (Concordia U); 2009 ASSA Meeting (KAEA, *invited*, San Francisco, CA); 2009 Korean Econometric Society Summer Meeting (*invited*, Seoul, Korea)

- 2007–2008 Cornell U; Texas A&M U; SUNY–Binghamton; Sungkyunkwan U; KAIST; 17th Midwest Econometrics Group Meeting (St. Louis U); 2008 International Symposium on Econometric Theory and Applications (Seoul National U); 2008 Korean Econometric Society Summer Meeting (*invited*, Seoul, Korea); Conference in Honor of Peter C.B. Phillips (Singapore Management U); 2008 Far Eastern and South Asian Meeting of the Econometric Society (Singapore)
- 2006–2007 U of Michigan; U of Pennsylvania; Michigan State U; Western Michigan U; Ohio State U; NY Camp Econometrics II (Saratoga Springs, NY)
- 2006 Yale U (4 times); U of Virginia; Pennsylvania State U; U of British Columbia; UC Irvine; U of Rochester; U of Michigan; U of Washington–Seattle; Virginia Polytechnic Institute and State U; Seoul National U (multiple occasions); Inter University Conference (Princeton U); Greater New York Metropolitan Area Econometrics Colloquium (Columbia U)

Teaching Experience:

Graduate Statistics: U of Michigan

Graduate Econometrics: Syracuse U; U of Michigan

Graduate Advanced Topics in Econometrics: Syracuse U (non/semiparametric models, big data analysis); U of Michigan (non/semiparametric models, panel data models); Seoul National U (nonparametric & nonlinear models)

Undergraduate Econometrics: Syracuse U; Yonsei U

Undergraduate Statistics: Syracuse U; U of Michigan; Yonsei U

Short Courses and Invited Lectures:

Nonparametric Econometrics: Center for Policy Research, Syracuse U (March 2019); KAIST (June 2019)

Panel Data Econometrics: Sogang U (July 2013); Yonsei U (June 2009); Sungkyunkwan U (June 2009); KAIST (June 2009; June 2019)

Economic Forecasting and Time Series Analysis: Korea Electric Power Corporation (Spring 2001)

Other Professional Experience:

Treasurer (elected), Korea-America Economic Association, 2022

External Examiner (for Ph.D. degree), University of York, U.K., 2022

Session Organizer, 92nd Annual Meeting of the Southern Economic Association, 2022

Judge, 1st International Negotiation Competition, 2021

Panelist, 1st KAEA Mentoring Night, 2020

Co-organizer, Graduate Summer Workshop, Yale U, 2005

Organizer, Econometrics Reading Group, Yale U, 2004–2005

Head Research Assistant (Macro-factor models), Korea Fixed Income Research Institute, 2001

Research Assistant (short-run economic forecasting), Daewoo Securities Co., Ltd., 1999–2001

Research Assistant (time series analysis), J.Y. Park, Seoul National U, 1999–2001

Service:Syracuse University (2013-present):

Faculty Teaching Evaluation Committee, 2021, 2022, 2023
 Director of Master's Studies in Economics, 2016-2020, (interim 2022)
 Graduate Advisory Committee, 2013-2016, 2020-present
 Undergraduate Major Mentor, 2020-present
 Jr. Faculty Evaluation Committee, 2016-present
 Econometrics Seminar Co-organizer, 2013-present
 Faculty Advisor, Mustard Seed Fellowship, Hendricks Chapel, 2017-present
 Faculty Research Evaluation Committee, 2017, 2018, 2019
 Faculty Recruiting Committee (Econometrics), 2016-2017
 Faculty Recruiting Committee (Labor/Public Economics), 2014-2015
 Faculty Recruiting Committee (Microeconomics), 2013-2014
 Comprehensive Exam Committee (Econometrics), 2013-2017
 Undergraduate Curriculum Committee, 2014

University of Michigan (2006-2013):

Department Senior Faculty Hiring Committee, 2011-2012
 Senior/Junior Faculty Recruiting Committee (Econometrics), 2007-2012
 Graduate Admission Committee, 2006-2009, 2011-2013
 Econometrics Seminar Co-organizer, 2006-2009, 2010-2013
 Field Exam Committee (Econometrics), 2007, 2008-2009 (Chair), 2011 (Chair)

Ph.D. Students and the Initial Placement:Syracuse University:

Axelrod, Huong (Economics, 2021).
 Liu, Guanyu (Economics, 2021; *Main Advisor*).
 Choo, Dahae (Economics, 2021; *Co-Main Advisor*), Seoul National University (postdoc), Korea.
 Zhu, Tianyun (Economics, 2021), Jinan University, China.
 Cai, Jun (Economics, 2021), Huazhong University of Science and Technology, China.
 Pham, Hoang Le Nhat (Economics, 2020), Oregon State University.
 Hwang, Seokchae (Economics, 2019), Ministry of Strategy and Finance, Korea.
 Shen, Shulin (Economics, 2018), Huazhong University of Science and Technology, China.
 Jung, Hyunseok (Economics, 2018), University of Arkansas.
 Karatas, Haci M. (Economics, 2017), Giresun University, Turkey.
 Oh, Jae Woo (Economics, 2017; *Co-Main Advisor*), Ministry of Strategy and Finance, Korea.
 An, Ran (Economics, 2017), Santander Holding USA Inc.
 Peng, Bin (Economics, 2016), Huazhong University of Science and Technology, China.
 Wang, Fa (Economics, 2016), City, University of London, U.K.
 Lee, Jae Yoon (Economics, 2015), Korea Institute for Industrial Economics & Trade (KIET), Korea.
 Mota, Nuno A.F. (Economics, 2015), Fannie Mae.

University of Texas at Dallas:

Han, Minyu (Economics, 2021), Apple Inc., China.

University of Michigan:

Zhou, Yu (Economics, 2014), Fudan University, China.

Kim, Gi Hyun (Business, 2012), University of Warwick, U.K.

Lee, Jongyeon (Economics, 2012; *Co-Main Advisor*), Korea Development Institute (KDI), Korea.

Morris, Emily K. (Economics, 2009), The Americas.

Huang, Bo (Business, 2009), HEC Paris, France.

Peterson, Kyle (Business, 2008), University of Oregon.

Referee:

Advances in Econometrics, Communications in Statistics - Theory and Methods, Econometrics, Econometrics Journal, Econometric Reviews, Econometric Theory, Empirical Economics, Handbook of Applied Nonparametric and Semiparametric Econometrics and Statistics, International Economic Review, Journal of Applied Econometrics, Journal of Applied Statistics, Journal of Business and Economic Statistics, Journal of Econometrics, Journal of Econometric Methods, Journal of Economic Theory and Econometrics, Journal of Human Resources, Journal of Nonparametric Statistics, Journal of Statistical Computation and Simulation, Journal of Statistical Planning and Inference, Journal of Urban Economics, Journal of the Japan Statistical Association, Journal of the Royal Statistical Society, Journal of Time Series Analysis, Korean Economic Review, Oxford Bulletin of Economics and Statistics, Oxford Handbook of Panel Data Econometrics, Quantitative Economics, Regional Science and Urban Economics, Studies in Nonlinear Dynamics and Econometrics

French National Research Agency, National Science Foundation, Research Grants Council of Hong Kong, Social Sciences and Humanities Research Council of Canada

Professional Memberships:

American Economic Association, Econometric Society, Korea-America Economic Association