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EDUCATION

- 1995-2001 Ph.D. in Economics, New York University, New York, NY
Dissertation: *Essays on Information Technology, Productivity Growth, and Employment Structure* (Advisor: M. Ishaq Nadiri)
- 1992-1995 M.A. in Economics, Seoul National University, Seoul, Korea
- 1987-1991 B.A. in Economics, Seoul National University, Seoul, Korea

EMPLOYMENT

- 2011-present Professor, Department of Economics,
Sogang University, Seoul, Korea
- 2012-2013 Visiting Scholar, Department of Economics,
New York University, New York, NY
- 2006-2011 Associate Professor, Department of Economics,
Sogang University, Seoul, Korea
- 2002-2006 Assistant Professor, Graduate School and University Center,
City University of New York, New York, NY
- 2001-2006 Assistant Professor, Department of Economics, Queens College,
City University of New York, Flushing, NY

FIELDS OF RESEARCH

Industrial Organization
Economics of Technological Change
Productivity Analysis
Applied Microeconomics

PUBLICATIONS

1. “Cross-border Vertical Integration and Intra-firm Trade: New Evidence from Korean and Japanese Firm-level Data,” (with Jung Hur, Young Gak Kim, and Hyeog Ug Kwon), *Asian Economic Papers*, 16(2), June 2017, 126-139.
2. “Job Creation and Destruction: New Evidence on the Role of Small versus Young Firms in Korea,” (with Janghee Cho, Hongjun Kim, Yoonsoo Lee), *Japanese Economic Review*, 68(2), June 2017, 173-187.
3. “Does Intangible Contribute to Productivity Growth in East Asian Countries? Evidence from Japan and Korea,” (with Tsutomu Miyagawa, Hak Kil Pyo, and Konomi Tonogi), in *Growth and Stagnation in the World Economy* edited by Dale W. Jorgenson, Kyoji Fukao, and Marcel P. Timmer, Cambridge University Press, October 2016 (Featured in VOX column, October 9, 2015).
4. “Productivity Growth and Stock Returns: Firm- and Aggregate-Level Analyses,” (with Jung-Wook Kim and Randall Morck), *Applied Economics*, 48(38), August 2016, 3644-3664 (NBER Working Paper No. 19462).

5. "Intangible Investment and Changing Sources of Growth in Korea," (with M. Ishaq Nadiri), *Japanese Economic Review*, 67(1), March 2016, 50-76.
6. "Job Creation, Destruction, and Regional Employment Growth: Evidence from Korean Establishment-level Data," (with Janghee Cho, Yoonsoo Lee, and Insil Yi), *KDI Journal of Economic Policy*, 37(4), November 2015, 55-74.
7. "How Does the Entry of Large Discount Stores Increase Retail Employment? Evidence from Korea," (with Janghee Cho and Yoonsoo Lee), *Journal of Comparative Economics*, 43(3), August 2015, 559-574.
8. "How Does Information Technology Improve Aggregate Productivity? A New Channel of Productivity Dispersion and Reallocation," (with Jung-Wook Kim and Jason Lee), *Research Policy*, 44(5), June 2015, 999-1016.
9. "Choosing Multiple Offshoring Strategies: Determinants and Complementarity," (with Janghee Cho and Jung Hur), *Journal of the Japanese and International Economies*, 34, December 2014, 42-57.
10. "Innovative Activities of an Incumbent and a Potential Entrant: An Empirical Exploration of the Role of Uncertainty in Product and Process Innovations," (with Sung-Bae Mun), *Asian Journal of Technology Innovation*, 22(2), December 2014, 219-233.
11. "Firm Heterogeneity, R&D, and Economic Growth," (with Joonkyung Ha and Jung-Wook Kim), *Economic Modelling*, 36, January 2014, 149-156.
12. "Determinants of R&D Cooperation in Small and Medium-Sized Enterprises," (with Sung-Bae Mun), *Small Business Economics*, 39(2), September 2012, 419-436.
13. "Capital Allocation, Stock Return Volatility, and Productivity Growth in U.S. Industries," (with Jung-Wook Kim), *Applied Economics Letters*, 18(16), October 2011, 1571-1576.
14. "Technology Shocks and Employment: Evidence from U.S. Firm-Level Data," (with Jung-Wook Kim), *B.E. Journal of Macroeconomics*, 11(1) (Topics), Article 31, September 2011, 1-21.
15. "Varying Heterogeneity among U.S. Firms: Facts and Implications," (with Jung-Wook Kim and Randall Morck), *Review of Economics and Statistics*, 93(3), August 2011, 1034-1052.
16. "Declining Output Growth Volatility: A Sectoral Decomposition," (with Jung-Wook Kim), *Economics Letters*, 106(3), March 2010, 151-153.
17. "Creative Destruction, Heterogeneous Firm Growth, and Efficient Resources Reallocation," (with Jung-Wook Kim), *Journal of Economic Research*, 14(1), May 2009, 93-119.
18. "Multifactor Productivity in Korea and an International Comparison: Data and Productivity Estimates of the Korea Industrial Productivity Database," (with Hak K. Pyo and Keun Hee Rhee), *Seoul Journal of Economics*, 21(4), December 2008, 551-577.
19. "Creative Destruction and Firm-Specific Performance Heterogeneity," (with Jung-Wook Kim, Randall Morck, and Bernard Yeung), *Journal of Financial Economics*, 89(1), July 2008, 109-135 (NBER Working Paper No. 13011).
20. "Decomposing Productivity Growth in the U.S. Computer Industry," (with M. Ishaq Nadiri), *Review of Economics and Statistics*, 90(1), February 2008, 174-180 (NBER Working Paper No. 9267).
21. "The Impact of Information Technology on Labor Productivity Growth: Evidence from Five OECD Countries, 1970-1990," *Korean Economic Review*, 23(1), June 2007, 5-32.
22. "Substitutability and Accumulation of Information Technology Capital in U.S. Industries," (with Sung-Bae Mun), *Southern Economic Journal*, 72(4), April 2006, 1002-1015.

23. "The Structure of Adjustment Costs in Information Technology Investment," (with Sung-Bae Mun), *Economics Bulletin*, 5(4), July 2005, 1-9.
24. "Information Technology and the Demand for Educated Workers: Disentangling the Impacts of Adoption versus Use," *Review of Economics and Statistics*, 85(1), February 2003, 1-8.
25. "An Instrumental Variable Estimate of Fertility Effect on the Labor Force Participation of Married Women," (with Jeungil Oh), *Applied Economics Letters*, 9(10), August 2002, 631-634.
26. "Why Do Married Men Earn More: Productivity or Marriage Selection?" (with Injae Lee), *Economic Inquiry*, 39(2), April 2001, 307-319 (Featured as "Why Married Men Earn More," *Business Week*, September 17, 2001).

PUBLICATIONS IN KOREAN

27. "Demand Uncertainty and Vertical Integration: Evidence from Ready-Mixed Concrete and Cement Firms," (with Jun Yeong Lee), *Review of Applied Economics*, 21(1), March 2019, 5-28.
28. "Survival Patterns between Franchise and Independent Stores: Evidence from Retail Bakeries," (with Jisoo Kang and Inhee Park) *Korean Journal of Industrial Organization*, 26(4), December 2018, 23-51.
29. "What Creates the Digital Divide? Costs or Benefits of Internet Use," (with Onjung Choi), *International Telecommunications Policy Review*, 25(3), September 2018, 95-122.
30. "The Complementary Effect of Government R&D Subsidies on Financially Constrained Firms," (with Sangnam Lee and Yunjung Oh), *Innovation Studies*, 13(3), August 2018, 205-229
31. "Growth and Failure of Manufacturing Plants in Korea: Single-unit versus Multi-unit Plants," (with Yoonsoo Lee and Nyeong Seon Son), *Journal of Market Economy*, 47(1), February 2018, 1-27.
32. "Entry, Exit and Productivity Growth in the Service Sector: Evidence from Industries with the Restriction of Excessive Entry," (with Jisoo Kang and Janghee Cho), *Korean Journal of Economic Studies*, 65(4), December 2017, 129-157.
33. "The Effect of Super Supermarket on the Entry and Exit of Retail Stores in Korea," (with Eunjee Kwon), *Korean Journal of Economic Studies*, 64(3), September 2016, 5-32.
34. "The Effect of Large Discount Stores' Entry on Service Quality of Traditional Markets," (with Jisoo Kang) *Korean Journal of Industrial Organization*, 23(2), June 2015, 33-56.
35. "Entry and Competition of Large Discount Stores in Korea," (with Yoonsoo Lee and Seoji Hur), *Korean Journal of Economic Studies*, 62(3), September 2014, 93-118.
36. "The Effects of Internet Use on Productivity and Growth at the Firm Level," (with Sung-Bae Mun and Janghee Cho), *International Telecommunications Policy Review*, 21(3), September 2014, 53-77.
37. "Complementarity between Export and FDI: Evidence from Korean Firms," (with Janghee Cho and Jung Hur), *Journal of Korea International Economic Association*, 19(4), December 2013, 145-164.
38. "Competition and Technological Innovation: Incumbent and Potential Entrant," (with Sung-Bae Mun), *Korean Journal of Industrial Organization*, 21(1), March 2013, 1-25.
39. "Productivity Difference and Globalization Strategies of Firms," (with Janghee Cho and Jung Hur), *Korean Journal of Economic Studies*, 61(1), March 2013, 5-30.

40. "Vertical Linkage and Foreign Ownership," (with Seung Yeon Oh), *Journal of Market Economy*, 41(1), February 2012, 89-110.
41. "Knowledge Spillovers and R&D Cooperation: Evidence from Korean ICT Manufacturing Firms," (with Sung-Bae Mun and Youngmi Yoon), *International Telecommunications Policy Review*, 18(1), March 2011, 91-115.
42. "R&D Cooperation Strategies: Complementarity or Substitutability," (with Janghee Cho), *Review of Applied Economics*, 12(2), September 2010, 113-136.
43. "Sibling Size and Children's Educational Attainment," (with Yu-Sun Chung), *Korean Journal of Labor Economics*, 32(2), August 2009, 1-25.
44. "Intergenerational Family Structure and Fertility," (with Injae Lee), *Quarterly Journal of Labor Policy*, 9(1), March 2009, 1-25.
45. "The Effects of Innovation Activities on Employment: Evidence from Korean ICT Firms," (with Sung-Bae Mun), *Korean Journal of Industrial Organization*, 16(1), March 2008, 1-24.
46. "Determinants of Innovation Activities in Korean ICT Firms," (with Sung-Bae Mun), *Review of Applied Economics*, 8(1), June 2006, 145-164.

WORKING PAPERS

1. "Diffusion of E-Commerce and Retail Job Apocalypse: Evidence from Credit Card Data on Online Spending," (with Hailey Hayeon Joo, Jisoo Kang, and Yoonsoo Lee), 2018.
2. "Does Airbnb Make the Hotel Industry More Competitive?" (with Hailey Hayeon Joo, Jaeyeon Kim, Sangkon Park and Chamna Yoon), 2018.
3. "Firm Size and Employment Dynamics: Evidence from the Impact of Minimum Wages," (with Jungmin Lee and Donghan Shin), 2018.
4. "Does Chinese Imports Make Domestic Plants More Capital-Intensive: Evidence from Korean Manufacturing," (with Jung Hur and Nyeong Seon Son), 2018.
5. "Servicification of Manufacturing: Evidence from Korean Multinational Firms," (with Jung Hur and Nyeong Seon Son), 2017.
6. "Reviving Small-Scale Reservations: Evidence from Korea," (with Hailey Hayeon Joo, Jisoo Kang, and Soo Hyung Kim), 2016 (R&R).
7. "Boundaries of Multinational Enterprises in Factory Asia," (with Jung Hur, Doyoung Kim, and Nyeong Seon Son), 2015 (R&R).
8. "Hollowing Out or Filling In? Plant Turnover and Job Reallocation of Multinational Enterprises," (with Jung Hur and Nyeong Seon Son), 2016 (R&R).
9. "Do Non-exporting Plants Benefit from Exporting Peer Plants?" (with Jung Hur, Nyeong Seon Son, Haeyeon Yoon), 2017 (R&R).
10. "Retail Modernization, Market Selection and Productivity Growth: Evidence from Korea," (with Janghee Cho and Yoonsoo Lee), 2014.
11. "Measurement of Intangible Investments by Industry and Its Role in Productivity Improvement Utilizing Comparative Studies between Japan and Korea," (with Kyoji Fukao, Shoichi Hisa, Tsutomu Miyagawa), RIETI Discussion Papers 12-E-037, 2012.

PRESENTATIONS

- Comparative Analysis of Enterprise Data (CAED) Conference, Ann Arbor, Michigan, May 2019 (scheduled)
- Western Economic Association 15th International Conference, Tokyo, Japan, March 2019
- Autumn Meeting for Japan Association for Applied Economics, Tokyo, Japan, October 2018
- The 12th Asia-Pacific Productivity Conference, Seoul, Korea, July 2018
- Korea Economic Association Annual Conference (Keynote Speech), Chuncheon, Korea, February 2018
- Comparative Analysis of Enterprise Data (CAED) Conference, Seoul, Korea, September 2017
- The Fourth Asia KLEMS Conference, Tokyo, Japan, July 2017
- Seoul National University, Seoul, Korea, March 2017
- KDI School, Sejong, Korea, March 2017
- Japan-Korea Microdata Workshop: Firm Dynamics, Innovation and Globalization, Jeju, Korea, October 2016
- Hitotsubashi Summer Institute: Economics of Services, Tokyo, Japan, August 2016
- The Fourth World KLEMS Conference, Madrid, Spain, May 2016
- Comparative Analysis of Enterprise Data (CAED) Conference, Istanbul, Turkey, October 2015
- The Third Asia KLEMS Conference, Taipei, Taiwan, August 2015
- World Congress of Comparative Economics, Rome, Italy, June 2015
- Workshop on Empirical Studies on Firm Dynamics, Job Creation and Productivity Growth in East Asia and the Beyond, Seoul, Korea, March 2015
- Association for Research in Industrial Economics (EARIE), Milano, Italy, August 2014
- The Third World KLEMS Conference, Tokyo, Japan, May 2014
- The First International Conference on Serviceology, Tokyo, Japan, October 2013
- Comparative Analysis of Enterprise Data (CAED) Conference, Atlanta, USA, September 2013
- The Second Asia KLEMS Conference, Seoul, Korea, August 2013
- Western Economic Association Annual Conference, Seattle, USA, June 2013
- Japan-Korea Workshop on Productivity Analysis, Seoul, Korea, December 2012
- The World Conference on Intellectual Capital for Communities, Paris, France, May 2012
- Yonsei University, Seoul, Korea, May 2012
- Workshop on Intangible Investment, Innovation and Productivity, Tokyo, Japan, January 2012
- OECD, Trade and Agriculture Directorate, Paris, France, October 2011
- Asia KLEMS Conference, Tokyo, Japan, July 2011
- Western Economic Association Annual Conference, San Diego, USA, July 2011
- Ewha University, Seoul, Korea, June 2011
- RIETI/G-COE Hi-Stat International Workshop, Tokyo, Japan, October 2010
- International Conference on Productivity in East Asia, Seoul, Korea, October 2010
- KAEA-KEA 14th International Economics Convention, Seoul, Korea, August 2010
- Sungkyunkwan University, Seoul, Korea, October 2009
- Comparative Analysis of Enterprise Data (CAED) Conference, Tokyo, Japan, October 2009
- OECD, Directorate for Science, Technology and Industry, Paris, France, August 2009
- Hallym University, Chuncheon, Korea, April 2009

- Workshop on Globalization, Firm Dynamics and Economic Growth, Tokyo, Japan, January 2009
- World Congress on National Accounts and Economic Performance, Arlington, USA, May 2008
- Korea University, Seoul, Korea, April 2008
- Seoul National University, Seoul, Korea, March 2008
- SK SUPEX International Conference on Globalization and Growth, Seoul, Korea, December 2007
- International Conference on Total Factor Productivity, Seoul, Korea, October 2007
- Workshop on Productivity Database, Tokyo, Japan, July 2007
- Western Economic Association Annual Conference, Seattle, WA, July 2007
- Kyunghee University, Seoul, Korea, May 2007
- Korea Academic Society of Industrial Organization Workshop, Seoul, Korea, April 2007
- Ewha Womans University, Seoul, Korea, March 2007
- Korea International Economic Association Annual Conference, Seoul, Korea, December 2006
- Western Economic Association Annual Conference, San Francisco, USA, July 2005
- International Industrial Organization Conference (IIOC), Atlanta, USA, April 2005
- CUNY Graduate Center, New York, USA, March 2005
- Eastern Economic Association Annual Meeting, New York, USA, March 2005
- Union College, Schenectady, USA, February 2003
- KAEA-KEA Tenth International Economics Convention, Seoul, Korea, August 2002
- Korea Development Institute, Seoul, Korea, March 2001
- National University of Singapore, Department of Economics, Singapore, March 2001
- Queens College, Department of Economics, New York, USA, February 2001
- State University of New York-Buffalo, Buffalo, USA, February 2001
- Federal Reserve Bank of San Francisco, San Francisco, USA, January 2001
- New York University, New York, USA, December 2000

TEACHING

- Sogang University Graduate Courses
Applied Microeconomics
Economics of Technological Change
- Sogang University Undergraduate Courses
Industrial Economics
Economics of Technological Change
Principles of Economics 1&2
Economic Statistics
- CUNY Graduate Center Ph.D. Courses
Applied Microeconometrics
- Queens College Undergraduate Courses
Industrial Organization
Introduction to Macroeconomics
Statistics: Economics and Business

AWARDS

- President's Commendation for National Statistical Development, 2014
- Chungang Award by Korea Academic Society of Industrial Organization, 2014
- Chongram Award by Korea Economic Association, 2011

GRANTS

- Mid-Career Researcher Grant, National Research Foundation, 2018
- Social Science Korea (SSK) Research Grant, National Research Foundation, 2016-2020
- Group Research Grant, National Research Foundation, 2016-2017
- Social Science Korea (SSK) Research Grant, National Research Foundation, 2013-2016
- International Exchange for University Researchers, National Research Foundation, 2012-2013
- Social Science Korea (SSK) Research Grant, National Research Foundation, 2010-2013
- New Faculty Research Grant, Korea Research Foundation, 2010
- Pyeongsan Research Grant, 2009-2010
- Sogang University Research Grant, 2009
- Sogang University New Faculty Research Grant, 2007
- PSC-CUNY Research Award, 2002, 2003, 2004, 2005

SERVICES

- Editorial Services
Editor, Korean Journal of Industrial Organization
Guest Editor, Japanese Economic Review
Editor; Associate Editor, Journal of Market Economy
Editorial Board: Korean Economic Review, Korean Journal of Industrial Organization, Journal of Korean Economic Studies, KDI Journal of Economic Policy
- Referee
Asian Journal of Technology Innovation, Contemporary Economic Policy, Eastern Economic Journal, Economic Record, Emerging Markets Finance and Trade, Energy Economics, Information Economics and Policy, Journal of Labor Research, Journal of Media Economics, Journal of Productivity Analysis, Research Policy, Review of Economic Dynamics, Review of Economics and Statistics, Southern Economic Journal, Technological Forecasting & Social Change, Bank of Korea Economic Papers, Korean Economic Review, Seoul Journal of Economics, International Economic Journal
- Review
National Science Foundation, Korea Research Foundation

- Academic Association Services
 - President, Korean Association of Applied Economics, 2019
 - Co-Chairman, KER International Conference Committee, Korean Economic Association, 2019
 - Program Committee, Asian Econometric Society Meeting, 2018
 - Scientific and Local Committee, Comparative Analysis of Enterprise Data (CAED) Conference, 2017
 - Scientific Committee, International Association for Research in Income and Wealth (IARIW) Conference, 2017
 - Co-Chairman, International Conference Committee, Korean Economic Association, 2016
 - Executive Committee, Korea International Economic Association, 2015
 - Secretary General, Korea Academic Society of Industrial Organization, 2014
 - Deputy Secretary General, Korean Econometric Society, 2008

 - University Services
 - Sogang University: Vice Dean of Graduate School of Economics, Department Graduate Director, University Library Committee, Department Curriculum Committee, Department Seminar Committee, Department Search Committee
 - Queens College, CUNY: Academic Senate, College Information Technology Committee, Department Search Committee, PSC-CUNY Research Award Review Panel
- (Revised April 2019)