

GAYOUNG KO

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RESEARCH INTERESTS

Industrial Organization, Applied Microeconomics, Labor Economics, Digital Platforms, Machine Learning

EDUCATION

Ph.D. in Economics

Aug 2016–Present

University of Virginia, Charlottesville, VA

Advisor: Prof. Simon Anderson and Prof. Gaurab Aryal

Thesis: Gender Discrimination in the Gig Economy

M.A. in Economics

May 2018

University of Virginia, Charlottesville, VA

M.A. in Economics

Feb 2012

Korea University, Seoul, Republic of Korea

Advisor: Prof. Kwanho Shin

B.A. in Economics

Feb 2010

Korea University, Seoul, Republic of Korea

Second Major: Financial Engineering (Interdisciplinary Program)

GPA: 4.3/4.5 (Upper GPA: 4.4/4.5)

WORK IN PROGRESS

“Gender Discrimination in the Gig Economy: Evidence from Online Auctions for Freelancing,” **G. Y. Ko** — *Job Market Paper*.

“Learning Outside the Classroom during a Pandemic: Evidence from an Artificial Intelligence-Based Education App,” **G. Y. Ko**, D. Shin, S. Auh, Y. Lee, and S. P. Han — under 2nd round review at *Management Science*.

“Human vs. AI: Will AI Allow Humans to Do Tasks that are Best Suited to Them?” D. Shin, **G. Y. Ko**, S. Auh, Y. Lee, and S. P. Han — manuscript in preparation for submission

“The Gender Gap and its Business Impact: Evidence from an Online Tutoring Platform,” **G. Y. Ko**, D. Shin, J. Kim, S. Auh, Y. Lee, and S. P. Han — manuscript in preparation for submission

PROFESSIONAL EXPERIENCE

Economic Researcher

Jan 2012–Aug 2015

LG Economic Research Institute, Seoul, Republic of Korea

- Forecasting the global and Korea economy.
- Consulting work on topics related to consumption and energy for internal teams and external businesses.
- Author of several industry articles related to labor, consumption and general macroeconomics (see “Industry Articles” section for full list).
- Conducted multiple interviews about research results with daily newspaper, major cable news and national/public TV broadcasting networks (KBS, MBC, SBS, YTN, Chosun Ilbo).

Research Assistant*Jul 2010–Dec 2011**Korea University, Seoul, Republic of Korea*

- Data analysis to empirically investigate the determinants of slow down in fast-growing economies. Results appear in: B. Eichengreen, D. Park and K. Shin, “When Fast-Growing Economies Slow Down: International Evidence and Implications for China,” *Asian Economic Papers*, 11(1):42–87, 2012.
- Data analysis to empirically investigate whether exports to China have a significant effect on the GDP of developing Asian countries. Results appear in: D. Park and K. Shin, “People’s Republic of China as an Engine of Growth for Developing Asia?” *Asian Economic Papers*, 10(2):120–163, 2011.

Research Intern*Aug 2008–Dec 2008**LG Economic Research Institute, Seoul, Republic of Korea*SEMINAR AND INVITED TALKS

Jun 2021: “The Gender Gap and its Business Impact: Evidence from an Online Tutoring Platform,” *Consortium for Data-driven and Experiment-based Evidence for Policy (DEEP)*, Seoul, Korea.

Jun 2021: “The Gender Gap and its Business Impact: Evidence from an Online Tutoring Platform,” *Korea Univeristy*, Seoul, Korea.

May 2019: “Gender in Gig Economy: Evidence from Online Auctions for Freelance Jobs,” *University of Virginia – 6th Economics Research Colloquium*, Charlottesville, Virginia.

HONORS AND AWARDS

Bankard Pre-doctoral Fellowship, *University of Virginia* 2020

Tipton Snavely Award for Best Dissertation Proposal, *University of Virginia* 2019

Tipton Snavely Award for Outstanding Summer Research, *University of Virginia* 2018

Presidential Award Scholarship, *University of Virginia* 2018

Graduate Student Fellowship, *University of Virginia* 2016

Best Article Award, *LG Economic Research Institute* Summer & Winter 2012, Summer 2015

Brain Korea Scholarship, *National Research Foundation of Korea* 2010–2011

Admission with Highest Honors, *Korea University* 2010

Honors Scholarship, *Korea University* 2005–2009

TEACHING EXPERIENCE

Teaching Assistant, *University of Virginia*

Spring 2020, 2021: ECON 3010 Intermediate Microeconomics (Undergraduate)

Fall 2017, 2018, 2019: ECON 4010 Game Theory (Undergraduate)

Spring 2018: ECON 7720 Econometrics II (Graduate)

Teaching Assistant, *Korea University*

Spring & Fall 2011: Macroeconomic Theory I (Graduate)

Fall 2009: Econometrics I (Undergraduate)

SERVICE ACTIVITIES

Organizer for UVa Graduate IO Research Meetings, *University of Virginia*

Summer 2020–Spring 2021

SKILLS

Programming: Python, R, SQL, Stata, Matlab, SPSS

COURSES TAKEN

Graduate Courses, *University of Virginia*

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|-------------------------------|---------------------------------|-------------------------------|
| Mathematical Economics | Microeconomic Theory I, II, III | Macroeconomic Theory I, II |
| Econometrics I, II | Economics of Labor Markets | Industrial Organization I, II |
| Advanced Macroeconomic Theory | Cross Section Econometrics | Time Series Econometrics |
| Data-Rich Econometrics | Experimental Economics | Statistical Machine Learning |

INDUSTRY ARTICLES

(Written in Korean – titles translated to English.)

1. G. T. Lee and **G. Y. Ko**, “The Loss of Human Capital due to Youth Unemployment,” *LG Business Insight*, no. 1367, pp. 35–42, Aug 2015.
2. **G. Y. Ko**, “Forecasting the Average Propensity to Consume based on the Life-cycle Hypothesis,” *LG Business Insight*, no. 1365, pp. 17–22, Aug 2015.
3. G. T. Lee and **G. Y. Ko**, “Increasing Risks of Secular Stagnation in Korea,” *LG Business Insight*, no. 1354, pp. 2–21, May 2015. (**Best Article Award**)
4. **G. Y. Ko**, “High School Graduates Lead Youth Employment,” *LG Business Insight*, no. 1345, pp. 24–30, Mar 2015.
5. G. T. Lee and **G. Y. Ko**, “The Importance of Domestic Demand-led Growth in Korea: A Case Study on the Policies in Developed Countries,” *LG Business Insight*, no. 1330, pp. 2–22, Dec 2014.
6. **G. Y. Ko**, “Declining Work-life Balance in Korea,” *LG Business Insight*, no. 1307, pp. 2–14, Jun 2014.
7. **G. Y. Ko**, “Increasing Single-person Households and its Impact on Consumption Patterns,” *LG Business Insight*, no. 1283, pp. 2–16, Jan 2014.
8. **G. Y. Ko**, “Propensity to Consume in the Age of Aging,” *LG Business Insight*, no. 1274, pp. 17–23, Nov 2013.
9. G. T. Lee and **G. Y. Ko**, “Income Inequality in Korea after the Global Financial Crisis,” *LG Business Insight*, no. 1254, pp. 2–19, Jun 2013.
10. J. Lee and **G. Y. Ko**, “Population Aging and the Debt-trap,” *LG Business Insight*, no. 1226, pp. 2–17, Dec 2012. (**Best Article Award**)
11. G. T. Lee and **G. Y. Ko**, “The Loss of Human Capital in Korea,” *LG Business Insight*, no. 1211, pp. 2–20, Aug 2012.
12. **G. Y. Ko** and G. T. Lee, “Self-employment in Low Value-added Industries,” *LG Business Insight*, no. 1205, pp. 17–26, Jul 2012. (**Best Article Award**)

REFERENCES

Simon Anderson

Commonwealth Professor of Economics
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Maxim P. Engers

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University of Virginia
Email: maxim@virginia.edu

Sang Pil Han

Associate Professor of Information Systems
W. P. Carey School of Business
Arizona State University
Email: shan73@asu.edu

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University of Virginia
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Seigyoung Auh

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Thunderbird School of Global Management
Arizona State University
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