

# GAYOUNG KO

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## RESEARCH INTERESTS

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Industrial Organization, Applied Microeconomics, Digital Platforms, Online Auctions, Machine Learning

## EDUCATION

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### Ph.D. in Economics

*Aug 2016 – Present*

*University of Virginia*, Charlottesville, VA

Advisor: Prof. Simon Anderson and Prof. Gaurab Aryal

Thesis: “Gender in the Gig Economy: Evidence from Online Auctions for Freelancing”

### 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)

## PROFESSIONAL EXPERIENCE

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### Economic Researcher

*Jan 2012 – Aug 2015*

*LG Economic Research Institute*, Seoul, Republic of Korea

- Forecasting components of GDP on the demand side in quarterly economic forecast projects.
- Joint research project with Korea University and Hitotsubashi University on forecasting household consumption regarding population aging.
- 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 using probit, chow-test and duration 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 using vector autoregression (VAR) models 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

## WORK IN PROGRESS

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- “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 revision for 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 — 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 — in preparation for submission

## SEMINAR AND INVITED TALKS

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- 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

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| <b>Bankard Pre-doctoral Fellowship</b> , <i>University of Virginia</i>                       | 2020                              |
| <b>Tipton Snavelly Award for Best Dissertation Proposal</b> , <i>University of Virginia</i>  | 2019                              |
| <b>Tipton Snavelly Award for Outstanding Summer Research</b> , <i>University of Virginia</i> | 2018                              |
| <b>Presidential Award Scholarship</b> , <i>University of Virginia</i>                        | 2018                              |
| <b>Graduate Student Fellowship</b> , <i>University of Virginia</i>                           | 2016                              |
| <b>Best Article Award</b> , <i>LG Economic Research Institute</i>                            | Summer & Winter 2012, Summer 2015 |
| <b>Brain Korea Scholarship</b> , <i>National Research Foundation of Korea</i>                | 2010 – 2011                       |
| <b>Admission with Highest Honors</b> , <i>Korea University</i>                               | 2010                              |
| <b>Honors Scholarship</b> , <i>Korea University</i>  | 2005 – 2009                       |

## TEACHING EXPERIENCE

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- 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)

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## SERVICE ACTIVITIES

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

Summer 2020 – Spring 2021

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## SKILLS

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

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## COURSES TAKEN

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### Graduate Courses, *University of Virginia*

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

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## INDUSTRY ARTICLES

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(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 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-led Growth in Korea: A Case Study on the Policies in Advanced 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 Consumption Pattern Changes,” *LG Business Insight*, no. 1283, pp. 2–21, 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

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**Simon Anderson**

Commonwealth Professor of Economics  
University of Virginia  
Email: [sa9w@virginia.edu](mailto:sa9w@virginia.edu)

**Federico Ciliberto**

Professor of Economics  
University of Virginia  
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University of Virginia  
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**Maxim P. Engers**

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Arizona State University  
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