

# GAYOUNG KO

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## RESEARCH INTERESTS

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Industrial Organization, Labor & Education Economics, Machine Learning, Digital Platforms, Online Auctions

## 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

**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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**Researcher** *Jan 2012 – Aug 2015*

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

**Research Assistant** *Jul 2010 – Dec 2011*

*Korea University*, Seoul, Republic of Korea

**Research Intern** *Aug 2008 – Dec 2008*

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

## WORK IN PROGRESS

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“Gender in Gig Economy: Evidence from Online Auctions for Freelance Jobs,” **G. Y. Ko** and D. Shin. *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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**Bankard Pre-doctoral Fellowship**, *University of Virginia* 2020

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

**Tipton Snavelly 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

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**Teaching Assistant**, *University of Virginia*

**Spring 2019, 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

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Organizer for UVa Graduate IO Research Meetings, *University of Virginia* Summer 2020 – Spring 2021

## SKILLS

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

## COURSES TAKEN

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**Graduate Courses**, *University of Virginia*

Mathematical Economics

Econometrics I & II

Advanced Macroeconomic Theory

Data-Rich Econometrics

Microeconomic Theory I & II

Economics of Labor Markets

Cross Section Econometrics

Experimental Economics

Macroeconomic Theory I & II

Industrial Organization I & II

Time Series Econometrics

Statistical Machine Learning

(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**, “A Study on the Decrease in 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**, “Employment of High School Graduates Leads to Increase in 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**, “Changes of Consumption Pattern due to the Increase in One-person Households,” *LG Business Insight*, no. 1283, pp. 2–21, Jan 2014.
7. **G. Y. Ko**, “Changes of the Propensity to Consume in the Age of Aging,” *LG Business Insight*, no. 1274, pp. 17–23, Nov 2013.
8. G. T. Lee and **G. Y. Ko**, “Changes of Income Inequality in Korea after the Global Financial Crisis,” *LG Business Insight*, no. 1254, pp. 2–19, Jun 2013.
9. J. Lee and **G. Y. Ko**, “To Avoid the Debt Trap due to Population Aging,” *LG Business Insight*, no. 1226, pp. 2–17, Dec 2012. (**Best Article Award**)
10. G. T. Lee and **G. Y. Ko**, “The Loss of Human Capital in Korea,” *LG Business Insight*, no. 1211, pp. 2–20, Aug 2012.
11. **G. Y. Ko** and G. T. Lee, “Analysis on Self-employment in Korea: Risks in Low-value Industries,” *LG Business Insight*, no. 1205, pp. 17–26, Jul 2012. (**Best Article Award**)

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REFERENCES

**Simon Anderson**

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

**Gaurab Aryal**

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

**Federico Ciliberto**

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