

**Seokkyun Joshua Woo**  
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## EDUCATION

**Georgia Institute of Technology**, Atlanta, GA August 2016 – May 2022

- School of Public Policy
- Ph.D. in Public Policy
- Committee: John Walsh (Chair), Mary Fox, Staša Milojević, Cassidy Sugimoto, Juan Rogers

**Georgia Institute of Technology**, Atlanta, GA August 2017 – May 2020

- H. Milton Stewart School of Industrial & Systems Engineering
- M.S. in Statistics (with emphasis on computational statistics/machine learning)

**Seoul National University**, Seoul, South Korea Mar 2011 - Feb 2013

- Technology Management, Economics and Policy Department, School of Engineering
- M.A. in Engineering Economics

**The University of Colorado at Boulder**, Boulder, CO August 2005 - June 2008

- B.A. in Economics

## RESEARCH INTERESTS

- Sociology and Organization of Science
- Science of Science
- History of Inventive Activities
- Organization Theory

## RESEARCH METHODS

- Advanced Statistical Methods
- Text-mining and Natural Language Processing
- Historical Data Analysis
- Ethnography

## PROFESSIONAL EXPERIENCE

**KAIST**, Daejeon, South Korea August 2023 - Present

- Graduate School of Science and Technology Policy
- Assistant Professor (tenure-track)

**Northwestern University**, Evanston, IL, USA June 2022 - August 2023

- Center of Science of Science and Innovation, Kellogg School of Management
- Post-doctoral Research Fellow

**Georgia Institute of Technology**, Atlanta, GA, USA August 2016 - May 2022

- School of Public Policy
- Graduate Research Assitant

## TEACHING EXPERIENCE

<b>STP 601 Survey in Science, Technology, and Public Policy (at KAIST)</b>	Fall 2023
<b>PUBP 6012 “Fundamentals of the Policy Process” (at Georgia Tech)</b>	Spring 2022
<b>PUBP 8803 “Bibliometrics, Citation Analysis &amp; Tech Mining” (at Georgia Tech)</b>	Fall 2019

## PEER-REVIEWED PUBLICATIONS

Woo, S., Walsh, J.P. 2024 “On the Shoulders of Fallen Giants: What do references to retracted research tell us about citation behaviors?” *Quantitative Science Studies* (forthcoming)

Kim, Y. H., Lee, Y. N., & Woo, S. 2023. “The rocky road to translational science: An analysis of Clinical and Translational Science Awards” *Research Evaluation*

Woo, S., Youtie, J., Ott, I., Scheu, F. 2021 “Understanding the Long-Term Emergence of Autonomous Vehicles Technologies” *Technological Forecasting and Social Change*

Youtie, J., Kwon, S. and Woo, S. 2021. The Impact of I-Corps on Accelerating Venture Discontinuation in a Southeastern US University. *Science and Public Policy*.

Kolesnikov, S., Woo, S., Li, Y., Shapira, P., & Youtie, J. 2019. Mapping the emergence of international university research ventures. *The Journal of Technology Transfer*

Woo, S., Jang, P., & Kim, Y. 2015. Effects of intellectual property rights and patented knowledge in innovation and industry value added: A multinational empirical analysis of different industries. *Technovation*

## WORKING PAPERS

“The Cycle of Doubt: How Scientists Cope with Uncertainties in Production of Data” (with John Walsh)

“Gender and Attrition in Research Careers” (with You-Na Lee)

“How Culture Shapes Science: Testing Merton Thesis by Examining the Effects of the Protestant Reformation on the Rate and Direction of Science during the 16th-18th century Holy Roman Empire.” (with Joshua Jackson and Dashun Wang)

## CONFERENCES, WORKSHOPS AND INVITED TALKS

**Seokkyun Woo** “Understanding scientific work through “failures” in production, consumption, and careers in science”, Metrics 2022: Workshop on Informetric and Scientometric Research (SIG/MET) Program, 8<sup>th</sup> October 2022 (Invited Talk)

**Seokkyun Woo, John Walsh** “The Cycle of Doubt: How Scientists Cope with Uncertainties in Production of Data”, American Sociological Association Annual Meeting at Los Angeles, CA, 7<sup>th</sup> August 2022 (Oral Presentation)

**Seokkyun Woo**, John Walsh “On the Shoulders of Fallen Giants: What do post-retraction citations tell us about the citation behavior, cumulative advantage, and misinformation in science”, The 15th Workshop on the Organisation, Economics and Policy of Scientific Research at Leuven, Belgium, 7<sup>th</sup> – 8<sup>th</sup> April 2022 (Oral Presentation)

**Seokkyun Woo**, John Walsh “The Cycle of Doubt: How Scientists Cope with Uncertainties in Production of Data”, Special session on DMREF collaborations at National Academies of Science, 21<sup>st</sup> February 2022 (Invited Talk)

**Seokkyun Woo**, John Walsh “The Cycle of Doubt: How Scientists Cope with Uncertainties in Production of Data”, Sociology of Science Workshop, Berlin, Germany, 23<sup>rd</sup> February 2022 (Virtual Presentation)

**Seokkyun Woo**, John Walsh “The Cycle of Doubt: How Scientists Cope with Uncertainties in Production of Data”, 4S 21 at Toronto, Canada, 6<sup>th</sup> – 9<sup>th</sup> October 2021 (Virtual Presentation)

**Seokkyun Woo**, John Walsh “The Cycle of Doubt: How Scientists Cope with Uncertainties in Production of Data”, Workshop on Original Policy Research at Atlanta, USA, 2<sup>nd</sup> September 2021 (Virtual Presentation)

**Seokkyun Woo**, Stasa Milojevic, Filippo Radicchi, John Walsh “Gender and Attrition in Science”, Workshop on Original Policy Research at Atlanta, USA, 2<sup>nd</sup> October 2020 (Virtual Presentation)

Yin Li and **Seokkyun Woo**, “How Humor Drives Science: Ig Nobel Prizes and Direction of Research”, The 14th Workshop on the Organisation, Economics and Policy of Scientific Research at Munich, Germany, 9<sup>th</sup> – 10<sup>th</sup> July 2020 (Virtual Presentation)

**Seokkyun Woo**, “On the Shoulders of Fallen Giants: Empirical Analysis of Post-retraction Citations”, APPAM 19 at Denver, USA, 6<sup>th</sup> – 9<sup>th</sup> June 2019 (Poster Presentation)

**Seokkyun Woo**, “On the Shoulders of Fallen Giants: Empirical Analysis of Post-retraction Citations”, 7<sup>th</sup> Atlanta Conference on Science and Innovation Policy, Atlanta, 14<sup>th</sup> – 16<sup>th</sup> October 2019 (Oral Presentation)

**Seokkyun Woo**, “On the Shoulders of Fallen Giants: Empirical Analysis of Post-retraction Citations”, 4S 19 at New Orleans, USA, 4<sup>th</sup> – 7<sup>th</sup> June 2019 (Oral Presentation)

**Seokkyun Woo** and Yin Li, “The Role of Curiosity in Science: Evidence from Ig Noble Prizes”, 17<sup>th</sup> Schumpeter Conference, Korea, 2<sup>nd</sup> – 4<sup>th</sup> July 2018 (Oral Presentation) (**Best Young Scholar Award**)

**Seokkyun Woo** and Yin Li, “The Role of Curiosity in Science: Evidence from Ig Noble Prizes”, DRUID 18 at Copenhagen, Denmark, 11<sup>th</sup> – 13<sup>th</sup> June 2018 (Oral Presentation)

**Seokkyun Woo** and Yin Li, “Does Humor Advance Science? Evidence from Ig Nobel Prizes”, 6<sup>th</sup> Atlanta Conference on Science and Innovation Policy, Atlanta, 9<sup>th</sup> – 11<sup>th</sup> October 2017 (Oral Presentation)

**Seokkyun Woo**, Sergey Kolesnikov, Yin Li, Phil Shapira and Jan Youtie, “International University Research Ventures (IURV) Findings from U.S. Universities”, DRUID 17 at New York Conference, New York, 12<sup>th</sup> – 14<sup>th</sup> June 2017 (Oral Presentation)

## GRANTS AND AWARDS

- Best Young Scholar Award, 17th Conference of the International Schumpeter Society. July 2018
- Fellowship from the Science and Technology Policy Institute (STEPI) January 2017

## TECHINICAL SKILLS AND LANGUAGE

- Computational Tools: Python, R, MATLAB, SQL, STATA
- Language: English (fluent), Korean (fluent)

## ACADEMIC COMMUNITY SERVICE

- Ad hoc reviewer for Research Policy 2018 –
- Ad hoc reviewer for Technological Forecasting and Social Change 2018 –
- Ad hoc reviewer for PLOS One 2021 –
- Ad hoc reviewer for Scientometrics 2022 –
- Ad hoc reviewer for Nature Human Behavior 2023 –

## REFERENCES

John P. Walsh  
Professor, School of Public Policy Georgia Institute of Technology  
Email: [john.walsh@pubpolicy.gatech.edu](mailto:john.walsh@pubpolicy.gatech.edu)

Cassidy R. Sugimoto  
Professor, School of Public Policy  
Tom and Marie Patton School Chair in the School of Public Policy Georgia Institute of Technology  
Email: [sugimoto@gatech.edu](mailto:sugimoto@gatech.edu)

Dashun Wang  
Professor, Kellogg School of Management  
Director, Center for Science of Science and Innovation (CSSI) Northwestern University  
Email: [dashun.wang@kellogg.northwestern.edu](mailto:dashun.wang@kellogg.northwestern.edu)