

CONTACT INFORMATION	Department of Statistics and Data Science Yonsei University Daewoo Hall #401, 50 Yonsei-ro, Seoul, South Korea Email: <a href="mailto:rinseo@yonsei.ac.kr">rinseo@yonsei.ac.kr</a> Web: <a href="https://rinseo.github.io">https://rinseo.github.io</a>
RESEARCH INTERESTS	Measuring the dynamics of public opinion for effective policy communication. <ul style="list-style-type: none"> <li>• My interests are focused on communication gaps at the intersection of <b>political</b> and <b>science communication</b>. I examine how public opinion diverges from policy actors' (political elites or scientific experts) views and the resulting unintended outcomes, regarding <i>public health and election issues</i>.</li> <li>• My research employs statistical methods to <b>adjust for biases and measurement error in observational data</b>, including survey and text data. I am also interested in <b>simulation experiments</b> with applications to social and environmental research.</li> </ul>
EDUCATION	<b>Yonsei University</b> , Seoul, South Korea  <b>M.A.</b> Statistics and Data Science ( <b>GPA: 4.13/4.3</b> ) <b>Feb 2022</b> <ul style="list-style-type: none"> <li>• Thesis Topic: <i>Measurement Error in Spatio-Temporal Outcomes</i></li> <li>• Advisor: <a href="#">Professor Sangwook Kang</a></li> </ul> <b>B.A.</b> Communication, Applied Statistics ( <b>GPA: 4.22/4.3</b> ) <b>Feb 2020</b> <ul style="list-style-type: none"> <li>• <i>Summa Cum Laude</i>, Graduated with Highest Honors</li> </ul>
REFEREED JOURNAL PUBLICATIONS	<p>[1] <b>Park, R.</b> &amp; Baek, Y. M. (2021). Talking alternatively what would happen versus talking straightly what happened: Tracking Congressional speech during the COVID-19 pandemic. <i>Journal of Social and Political Psychology</i>, 9(2), XX-XX. <a href="https://doi.org/10.5964/jspp.6153">https://doi.org/10.5964/jspp.6153</a> [DOI NEED TO BE ASSIGNED]</p> <p>[2] <b>Park, R.</b> &amp; Baek, Y. M. (2021). Trends in survey response rates during election periods in South Korea: Two-phases of survey response model and survey modes. <i>*Journal of Communication Research</i>, 58(3), 5-45. <a href="https://doi.org/10.22174/jcr.2021.58.3.5">https://doi.org/10.22174/jcr.2021.58.3.5</a>.</p> <p>[3] <b>Park, R.</b> &amp; Baek, Y. M. (2020). Early voting and the citizens' change in vote choice in Korean legislative elections: An ecological inference (EI) approach. <i>*Korean Party Studies Review</i>, 19(3), 39-73. <a href="https://doi.org/10.30992/KPSR.2020.09.19.3.39">https://doi.org/10.30992/KPSR.2020.09.19.3.39</a></p> <p style="text-align: right;">(*: Journals in Korean)</p>
BOOKS	<p>[4] Baek, Y. M. &amp; <b>Park, R.</b> (forthcoming). <i>Complex survey data analysis using R</i>. Seoul: Hannarae Publishing Co.</p> <p>[5] Baek, Y. M. &amp; <b>Park, R.</b> (2021). <i>Missing data analysis using R: Maximum likelihood and multiple imputation</i>. Seoul: Hannarae Publishing Co.</p> <p>[6] Baek, Y. M. &amp; <b>Park, R.</b> (2021). <i>Propensity score analysis using R: Causal inference based on the Rubin's causal model</i>. Seoul: Hannarae Publishing Co.</p>
WORKS IN PROGRESS	<p>[7] <b>Park, R.</b> &amp; Kang, S. A measurement error approach for satellite-based air quality modeling: Using GEMS-retrieved nitrogen dioxide (NO<sub>2</sub>) products.</p> <p>– <b>Best paper award:</b> Presented at <i>the BK21 Conference for Statistics and Data Science, Yonsei University, Seoul, South Korea, October 15, 2021</i>.</p>

- [8] **Park, R.** & Song, H. We don't need THAT vaccine: An agent-based modeling of vaccine uptake and resistance with two vaccines.  
 – Presented at *the World Congress for Korean Politics and Society 2021, Seoul, South Korea, August 18-20, 2021*.
- [9] **Park, R.** & Baek, Y. M. Evaluating the effectiveness of parental mediation on children's media use: Propensity score matching with complex survey data.  
 – Presented at *the 6th Annual Korea Press Foundation Conference Using the KPF Media Statistics Data, Seoul, South Korea, November 27, 2021*.

RESEARCH  
EXPERIENCES

**National Institute of Environmental Research (NIER)**

(Supervisor: Professor Sangwook Kang)

*Research Assistant*

**Apr 2020 - Dec 2021**

- Developed geostatistical algorithms for **GEMS**, satellite-based air quality data, and conducted simulation studies using kriging and Gaussian random fields
- Managed a Linux-based RStudio server for computing over 1TB of data
- Appointed by Professor Kang to lead the team of 7 research assistants in 2021

**Korea Press Foundation (KPF)**

(Supervisor: Professor Young Min Baek)

*Researcher*

**Jul 2021 - Sep 2021**

- Examined the effects of parental mediation on children's media use employing causal inference methods in the *Child and Media Korea 2020* survey

**Ministry of Foreign Affairs (MOFA), Republic of Korea**

(Supervisor: Professor Young Min Baek)

*Research Assistant*

**Apr 2020 - Aug 2020**

- Tracked topic changes over two decades in the US elite discourse (Congressional records and NYT/WP's news articles) toward the Korean peninsula

**Gwangju National University of Education**

(Supervisor: Professor Young Min Baek)

*Researcher*

**Mar 2020 - Apr 2020**

- Built an interactive web application for Korean text analytics using R Shiny

**NAVER News Algorithm Review Board**

(Supervisor: Professor Kyungmo Kim)

*Undergraduate Research Assistant*

**Feb 2017 - May 2017**

- Collected news articles about the 2017 South Korean presidential election to assess the political neutrality of NAVER's news selection and placement algorithms

TEACHING  
EXPERIENCES

**Department of Applied Statistics, Yonsei University**

(Lecturer: Professor Sangwook Kang)

*Teaching Assistant*

**Fall 2020 - Spring 2021**

- STA3123: Survey Sampling, Spring 2021 (*Taught in English, SAS software*)
- STA3108: Survival Analysis, Fall 2020 (*Taught in English, R software*)

INTERNSHIP	<b>NAVER Corporation</b> , Seongnam, South Korea	
	<i>Research Intern</i>	<b>Jan 2020 - Feb 2020</b>
	<ul style="list-style-type: none"> <li>Proposed a novel approach to visualize the evolution of buzzwords at <a href="#">Data Lab</a></li> </ul>	
LEADERSHIP	<b>Yonsei Big Data Club (YBIGTA)</b> (Advisor: <a href="#">Professor Won Suk Lee</a> )	
	<i>13th Vice President</i>	<b>Jul 2018 - Jun 2019</b>
	<ul style="list-style-type: none"> <li>Managed the 60-member club's weekly sessions and semestral conference on data science topics from ML/AI to cloud computing in the Dept. of Computer Science</li> </ul>	
HONORS AND AWARDS	<b>Yonsei University</b>	
	<ul style="list-style-type: none"> <li>Best Paper Award, BK21 Conference for Statistics and Data Science</li> </ul>	<b>Oct 2021</b>
	<ul style="list-style-type: none"> <li>Graduated with Highest Honors (Top 1% of the graduating class)</li> </ul>	<b>Feb 2020</b>
	<ul style="list-style-type: none"> <li>Excellence Prize, Embrain Panel Big Data Competition</li> </ul>	<b>May 2019</b>
	<b>NAVER Corporation</b>	
	<ul style="list-style-type: none"> <li>Excellence Prize, Data Science Competition 2019</li> </ul>	<b>Aug 2019</b>
SCHOLARSHIPS	<b>National Research Foundation of Korea (NRF)</b>	
	<ul style="list-style-type: none"> <li>Brain Korea 21 (BK21) Scholarship (\$600 per month)</li> </ul>	<b>2020 - 2021</b>
	<b>Yonsei University</b>	
	<ul style="list-style-type: none"> <li>Bachelor's-Master's Bridge Program Scholarship (full tuition)</li> </ul>	<b>2020 - 2021</b>
	<ul style="list-style-type: none"> <li>Honors Scholarship (7 consecutive semesters)</li> </ul>	<b>2016 - 2019</b>
	<b>Samsung Foundation</b>	
	<ul style="list-style-type: none"> <li>Samsung Dream Class Scholarship</li> </ul>	<b>Summer 2017</b>
TECHNICAL STRENGTHS	<b>Programming / Markup</b>   R, Python, SAS, NetLogo / $\text{\LaTeX}$ , HTML, CSS <b>Cloud Computing / OS</b>   GCP, AWS, Docker / Windows, Linux, macOS	
REFERENCES	<b>Professor Sangwook Kang</b> ( <a href="mailto:kanggi1@yonsei.ac.kr">kanggi1@yonsei.ac.kr</a> ) <ul style="list-style-type: none"> <li>Associate Professor, Department of Statistics and Data Science, Yonsei University</li> </ul>	
	<b>Professor Young Min Baek</b> ( <a href="mailto:ymbaek@yonsei.ac.kr">ymbaek@yonsei.ac.kr</a> ) <ul style="list-style-type: none"> <li>Associate Professor, Department of Communication, Yonsei University</li> </ul>	
	<b>Professor Hyunjin Song</b> ( <a href="mailto:hyunjinsong@yonsei.ac.kr">hyunjinsong@yonsei.ac.kr</a> ) <ul style="list-style-type: none"> <li>Assistant Professor, Department of Communication, Yonsei University</li> </ul>	
	<b>Professor Jongho Im</b> ( <a href="mailto:ijh38@yonsei.ac.kr">ijh38@yonsei.ac.kr</a> ) <ul style="list-style-type: none"> <li>Associate Professor, Department of Statistics and Data Science, Yonsei University</li> </ul>	
	<b>Professor Hakbae Lee</b> ( <a href="mailto:hblee@yonsei.ac.kr">hblee@yonsei.ac.kr</a> ) <ul style="list-style-type: none"> <li>Professor, Department of Statistics and Data Science, Yonsei University</li> </ul>	
MORE INFORMATION	Supplementary materials can be found at my website, <a href="https://rinseo.github.io">https://rinseo.github.io</a> . The online version of this document contains active hyperlinks.	

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