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## JE HOON CHAE

### RESEARCH INTERESTS

**Substantive:** political communication; political psychology; public opinion.

**Methodological:** computational social science; text-as-data; applying machine learning for causal inference; online survey experiment; network analysis.

### EDUCATION

- 2020 **Yonsei University**, M.S. in Media Communication  
Dissertation: *The effect of fact-check news and perceived media bias*  
Committee: Sang Yup Lee, PH.D. (Chair), Kyungmo Kim, PH.D., Joohan Kim, PH.D.  
Awards:  
• Best Graduate Student Paper (Korean Society for Journalism & Comm. Studies)  
• Distinguished Dissertation Award (Yonsei University)
- 2017 **Yonsei University**, B.A. in Communication & Theology

### WORKING PAPERS

**Chae, J. H.**, Lee, S. Y., & Song, H. (Under Review). [Attitudinal Persuasion and Perceptual Backfire? Effects of Fact-Checking News Delivered by Partisan Media.](#)

Min, S., **Chae, J. H.**, Lee, J., & Lee, S. Y. (Drafting). [Image as Data: How Instagram photos reveal individual's characteristics and personality.](#)

Min, S., **Chae, J. H.**, & Han, S. (Drafting). [Event Segmentation in Memory for Real-World Social Events: A case study on COVID-19.](#)

Lee, J., **Chae, J. H.**, Min, S., & Lee, S. Y. (In Preparation). [Predicting Depression Symptom with Images: Application of auto-encoder.](#)

### CONFERENCE PRESENTATIONS

- 2021 **Chae, J. H.**, Song, H., & Lee, S. Y. (2021, October). "Perceiving Fact-Checks as Biased but Nevertheless Persuaded? Effects of Fact-Checking News Delivered by Partisan Media," 117<sup>th</sup> *Annual Meeting of American Political Science Association (APSA)*, Virtual Conference.
- Chae, J. H.**, Song, H., & Lee, S. Y. (2021, August). "Perceiving Fact-Checks as Biased but Nevertheless Persuaded? Effects of Fact-Checking News Delivered by Partisan Media," 116<sup>th</sup>

*Annual Meeting of American Sociological Association (ASA)*, Virtual Conference.

Min, S., **Chae, J. H.**, Lee, J., & Lee, S. Y. (2021, July). "Identifying individuals using topic patterns of Instagram photos," *7<sup>th</sup> International Conference on Computational Social Science (IC<sup>2</sup>S<sup>2</sup>)*, Virtual Conference.

**Chae, J. H.**, Song, H., & Lee, S. Y. (2021, May). "Perceiving Fact-Checks as Biased but Nevertheless Persuaded? Effects of Fact-Checking News Delivered by Partisan Media," *71<sup>th</sup> Annual Conference of International Communication Association (ICA)*, Virtual Conference.

2020 Min, S., **Chae, J. H.**, & Han, S. (2020, August). "Event Segmentation in Memory for Real-world Social Events," *Annual Conference of the Korean Society for Cognitive & Biological Psychology*, Virtual Conference.

• Selected for the Best Presentation Award

**Chae, J. H.**, & Lee, S. Y. (2020, July). "Persuasion Effect of Fact-Checking News and Perceived Media Bias," *Annual Conference of the Korean Society for Journalism & Communication Studies*, Dae-gu, Republic of Korea.

• Selected for the [Best Graduate Student Paper \(First Prize\)](#)

Min, S., **Chae, J. H.**, Lee, J., & Lee, S. Y. (2020, July). "Image as Data: How Instagram Photos Reveal Individual's Characteristics and Personality," *Annual Conference of the Korean Psychology Association*, Virtual Conference.

2019 **Chae, J. H.** (2019, October). "How News Media Covered #MeToo Movement: Application of Structural Topic Modeling and Word Embedding," *10<sup>th</sup> Honours Symposium for Asian Ph.D. Students in Communication Research*, Seoul, Republic of Korea.

**Chae, J. H.**, & Lee, S. Y. (2019, July). "News Framing of Refugee Issue in Republic of Korea: Application of Topic Model," *5<sup>th</sup> International Conference on Computational Social Science (IC<sup>2</sup>S<sup>2</sup>)*, Amsterdam, Netherlands.

Min, S., **Chae, J. H.**, Lee, J., Park, J., & Kim, H. (2019, March). "Exploration of the Relationship Between Individual Psychological Traits and Behavioral Patterns on Social Media," *Yonsei Institute of Convergence Science Conference*, Seoul, Republic of Korea.

#### AWARDS, HONORS, & GRANTS

2020 **Best Graduate Student Paper (First Prize)** KRW 1,000,000 (≈ USD 900)  
Korean Society for Journalism & Communication Studies

2020 **Distinguished Dissertation Award**  
Yonsei University

2018 **Institute of Convergence Science Research Grant** KRW 3,000,000 (≈ USD 2,500)  
Yonsei University

2017–2020 **Brain Korea 21+ Fellowship** KRW 14,400,000 (≈ USD 12,000)  
National Research Foundation (NRF)

2015 **Academic Honor**  
Yonsei University

## RESEARCH EXPERIENCES

- 2021 **Measuring Quality of Foreign News on Portal from Textual Data**  
 Research Assistant (PI: Kyungmo Kim, Ph.D.)  
 Role: Trained machine learning (ensemble) model to predict news quality
- 2018–2020 **Application of Vision Algorithms to Instagram Photo to Predict User Personality**  
 Research Assistant (PI: Sang Yup Lee, Ph.D.)  
 Role: Trained statistical model to predict user's personality with Instagram photo

## TEACHING EXPERIENCES

- Yonsei University (Graduate Invited Lecturer)**
- 2020 Web-Scraping & Text Mining with Python, Department of Physical Education
- Yonsei University (Undergraduate Teaching Fellow)**
- 2019 COM4206: Communication Text Mining, Department of Communication  
 COM3128: Public Relations, Department of Communication
- 2017 COM3144: Theories of Advanced Public Relation, Department of Communication

## RELEVANT COURSEWORK

- Harvard University (Summer & Extension Program)**
- 2022 MATH-E21B: Linear Algebra (*Prof. Robert Winters*)
- 2021 GOV2001/STAT-E200: Quantitative Social Science Methods I (*Prof. Gary King*)  
 MATH-E23A: Linear Algebra & Real Analysis I (*Prof. Grant Murray*)  
 MATH-E156: Mathematical Statistics (*Prof. Dmitry Kurochkin*)  
 MATH-E16: Calculus II with Series & Differential Equations (*Prof. Srdjan Divac*)  
 MATH-S1A: Calculus I (*Prof. Carolyn Gardner-Thomas*)  
 CSCI-S50: Intensive Introduction to Computer Science (*Prof. David Malan*)
- Yonsei University**
- 2019 SOC7625: Mathematical Sociology (*Prof. Jeong Han Kang*)  
 COM6604: Online Data Analysis Seminar (*Prof. Sang Yup Lee*)  
 LIS8016: Seminar in Text Mining (*Prof. Min Song*)  
 POL6516: Political Psychology (*Prof. Shang E. Ha*)
- 2018 COM6600: Online Data Collection and Analysis (*Prof. Sang Yup Lee*)
- 2016 COM3164: Data Communication Science (*Prof. Young Min Baek*)

## TRAINING

- 2021–2022 Harvard University, Summer & Extension Program (Math & Statistics courseworks)
- 2021 Hartie School Data Science Summer School (DS3)  
 Summer Institute for Computational Social Science (SICSS; Instructor: Hirokazu Shirado, Ph.D.)  
 University of Texas Austin, Summer Statistics Institute (Instructor: Stephen Jessee, Ph.D.)  
 Deep Learning and Artificial Intelligence Summer School (DLAI5)
- 2019 Workshop of Generalized Linear Model, Korea Social Science Data Archive
- 2018 Linear Algebra for Data Science Workshop, Yonsei University  
 Introduction to Statistics with R, Department of Statistics, Yonsei University

## SKILLS

**Statistical skills:** Advanced regression including multilevel analysis with generalized linear models (with cross-sectional or panel data); causal inference (i.e., matching, difference in difference, regression discontinuity); machine learning model training for textual and image data (applying supervised/unsupervised and deep-learning models); network analysis (e.g., ERGM, QAP); advanced (Bayesian) parameter estimation methods including EM algorithm, MCMC, and variational inference.

**Research skills:** Online survey experiment (MTurk, Qualtrics, Lucid); online data collection (digital trace data collection usually with Python); open science with pre-registration (OSF, EGAP).

**Programming languages:** Python (proficient), C, C++, JavaScript, Java

**Statistical tools:** R (proficient), Stata, SPSS, Jamovi, JASP (advanced)

**Other computational languages or tools:**  $\LaTeX$ , Git, GitHub, SQLite, HTML, CSS, Markdown

**Languages:** Korean (native), English (fluent; GRE Verbal: 163/170, 92 percentile; TOEFL IBT: 104/120)

## REFERENCES

### Sang Yup Lee

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Department of Communication, Yonsei University  
50, Yonsei-ro, Seodaemun-gu, Seoul, Republic of Korea  
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Department of Communication, Yonsei University  
50, Yonsei-ro, Seodaemun-gu, Seoul, Republic of Korea  
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### Kyungmo Kim

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(Additional references are available upon request)