

Department of Communication
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JE HOON CHAE

RESEARCH INTERESTS

Substantive: political communication; misinformation; 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," 117th 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," 116th

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," *7th International Conference on Computational Social Science (IC²S²)*, 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," *71th 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," *10th 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," *5th International Conference on Computational Social Science (IC²S²)*, 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

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)
 University of Texas Austin, Summer Statistics Institute (Instructor: Stephen Jessee)
 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); 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

REFERENCES

Sang Yup Lee

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(Additional references are available upon request)