

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

- 2022– **University of Illinois at Urbana-Champaign**
Ph.D. in Communication
- 2017–2020 **Yonsei University**
M.S. in Media Communication
- 2012–2017 **Yonsei University**
B.A. in Communication

WORKING PAPERS

3. **Chae, J. H.**, Lee, S. Y., & Song, H. [Attitudinal Persuasion and Perceptual Backfire? Effects of Fact-Checking News Delivered by Partisan Media.](#) *Under Review.*
2. Min, S., **Chae, J. H.**, Lee, J., & Lee, S. Y. [Image as Data: How Instagram photos reveal individual's characteristics and personality.](#) *Drafting.*
1. Min, S., **Chae, J. H.**, & Han, S. [Event Segmentation in Memory for Real-World Social Events: A case study on COVID-19.](#) *Drafting.*

CONFERENCE PRESENTATIONS

10. **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.
9. **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.
8. 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.
7. **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.

6. 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
5. **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 \(First Prize\)](#)
4. 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.
3. **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.
2. **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.
1. 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

2022–2025	Illinois Distinguished Fellowship University of Illinois at Urbana-Champaign	\$75,000
2020	Best Graduate Student Paper (First Prize) Korean Society for Journalism & Communication Studies	KRW 1,000,000 (≈ \$900)
2020	Distinguished Dissertation Award Yonsei University	
2018	Institute of Convergence Science Research Grant Yonsei University	KRW 3,000,000 (≈ \$2,500)
2017–2020	Brain Korea 21+ Fellowship National Research Foundation (NRF)	KRW 14,400,000 (≈ \$2,000)
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