

Department of Communication
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JE HOON CHAE

RESEARCH INTERESTS

Substances: misinformation; political communication; political psychology; public opinion.

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

EDUCATION

2020 Yonsei University

M.S. in Media Communication

Dissertation: *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:

- First Prize, 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, South 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, South Korea.
- Chae, J. H.**, & Lee, S. Y. (2019, July). "News Framing of Refugee Issue in South 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, South Korea.

AWARDS, HONORS, & GRANTS

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| 2020 | Best Graduate Student Paper (First Prize)
Korean Society for Journalism & Communication Studies | KRW 1,000,000 (≈ USD 900) |
| 2020 | Distinguished Dissertation Award
Yonsei University | |
| 2018 | Institute of Convergence Science (ICONS) Research Grant
Yonsei University | KRW 3,000,000 (≈ USD 2,500) |
| 2017–2020 | Brain Korea 21+ Fellowship
National Research Foundation (NRF) | KRW 14,400,000 (≈ USD 12,000) |
| 2015 | Academic Honor
Yonsei University | |

RESEARCH EXPERIENCES

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| 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, 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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Associate Professor of Digital Analytics (by courtesy)
Department of Communication, Yonsei University
50, Yonsei-ro, Seodaemun-gu, Seoul, South Korea
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Kyungmo Kim

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(Additional references are available upon request)