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JE HOON CHAE

RESEARCH INTEREST

Political Communication; Polarization; Political Psychology; Political Rhetoric. **Computational Social Science**; Data Science; Causal Inference; Text-as-Data.

EDUCATION

2020 Yonsei University

M.S. in Media Communication

2017 Yonsei University

B.A. in Theology & Communication

WORKING PAPERS

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

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," 7^{th} International Conference on Computational Social Science (IC^2S^2), 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). "The Persuasion Effect of Fact-Checking News and Perceived Media Bias," *Annual Conference of the Korean Communication Association*, 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 South 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 & GRANTS

- 2020 Best Graduate Student Paper, Korean Society for Journalism & Comm. Studies \$1,000
- 2020 Distinguished Dissertation Award, Yonsei University
- 2018 Institute of Convergence Science (ICONS), Yonsei University
- 2017–2020 Brain Korea 21+, National Research Foundation (NRF) \$12,000
 - 2015 Academic Honor, Yonsei University

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
- 2019 COM3128: Public Relations, Department of Communication
- 2017 COM3144: Theories of Advanced Public Relation, Department of Communication

WORKING EXPERIENCES

2020–2022 Yongsan Ward's Office

Mandatory Military Service

2013 National Assembly

Internship of Aide for Member of the National Assembly

\$3,000

RESEARCH EXPERIENCES

- 2021 Research Assistant for Kyungmo Kim
- 2018–2020 Research Assistant for Sang Yup Lee
 - 2017 Research Assistant for Jungho Han

LIFE EXPERIENCES

2014- Backpacker

Traversed Siberia from Vladivostok to Murmansk (Russia), Norway, Finland, North Pole (Svalbard), New Zealand, Hokkaido (Japan), Iceland, and Andalusia (Southern Spain).

TRAINING

- 2021–2022 Harvard University, Extension & Summer Program (Math & Statistics courseworks)
 - 2021 Hartie School Data Science Summer School (DS3)
 - 2021 Summer Institute for Computational Social Science (SICSS)
 - 2021 University of Texax Austin, Summer Statistics Institute
 - 2021 Deep Learning and Artificial Intelligence Summer School (DLAI5)
 - 2019 4-weeks workshop of Generalized Linear Model, Korea Social Science Data Archive
 - 2018 Linear Algebra for Data Science Workshop, Yonsei University
 - 2018 Introduction to Statistics with R, Yonsei University

RELEVANT COURSEWORKS

Harvard University (Summer Program & Extension)

2022	MATH-E21B: Linear Algebra	Prof. Robert Winters
2021	GOV2001/STAT-E200: Quantitative Social Science Methods	I Prof. Gary King
2021	MATH-E23A: Linear Algebra & Real Analysis I	Prof. Grant Murray
2021	MATH-E156: Mathematical Statistics	Prof. Dmitry Kurochkin
2021	MATH-E16: Calculus II with Series & Differential Equation	s Prof. Srdjan Divac
2021	MATH-S1A: Calculus I	Prof. Carolyn Gardner-Thomas
2021	CSCI-S50: Intensive Introduction to Computer Science	Prof. David Malan

Yonsei University

2020	soc7625: Mathematical Sociology	Prof. Jeong Han Kang
2020	сом6604: Online Data Analysis Seminar	Prof. Sang Yup Lee
2020	LIS8016: Seminar in Text Mining	Prof. Min Song
2020	POL6516: Political Psychology	Prof. Shang E. Ha
2018	сом6600: Online Data Collection and Analysis	Prof. Sang Yup Lee
2016	сом3164: Data Communication Science	Prof. Young Min Baek

SKILLS

Statistical Modeling

Multi-level regression (lme4), Causal inference (matching, two-stage least square, difference in difference, regression discontinuity), Bayesian estimation (Markov Chain Monte Carlo, Variational Inference, Stan, brms), Mediation (mediation, processR), Time-series modeling (ARIMA, Hidden Markov Model, Vector Autoregression), Network analysis (ERGM, QAP)

Behavioral Data Analysis

Experimental design (DeclareDesign), Network-based experiment (Empirica, breadboard), Survey (MTurk, Lucid, Qualtrics, Google Forms)

Online Data Analysis

Web-scraping (BeautifulSoup4, scrapy, Selenium, Instagram Scraper), Social media data collection (Tweepy, rtweet)

Machine Learning

Penalized regression (Lasso, Ridge, Elastic Net), Dimensionality reduction (PCA, *t*-SNE, UMAP), Classification (KNN, Naive Bayes, Decision Tree, SVM, Ensemble Model), Unsupervised model (GMM, k-means), Deep Learning (CNN, RNN, LSTM, Elmo, BERT, GPT-3, GAN, Keras, PyTorch, TensorFlow)

Automated Text Analysis

Text pre-processing (spaCy, nltk, spacyr, quanteda, konlpy, soynlp), Topic modeling (LSA, LDA, STM, keyATM, rectr), Sentiment analysis (Dictionary-based approach, LIWC, Supervised ML), Word embedding (word2vec, Glove, fastText, BERT)

Programming/Statistical Language and Tools

Programming language (Python, C, C++, JavaScript, Java), Statistical tools (R, Stata, SPSS, Jamovi, JASP), Other language or tools (上下X, Git, GitHub, SQL, HTML, CSS, Markdown)

REFERENCES

Sang Yup Lee

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Hyunjin Song

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Kyungmo Kim

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(Additional references are available upon request)