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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 \$3,000
- 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

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	COM3164: 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 (LATEX, Git, GitHub, SQL, HTML, CSS, Markdown)

REFERENCES

Sang Yup Lee

Professor of Communication & Digital Analytics Department of Communication, Yonsei University 50, Yonsei-ro, Seodaemun-gu, Seoul, Republic of Korea Email: sangyuplee@yonsei.ac.kr

Hyunjin Song

Professor of Communication Department of Communication, Yonsei University 50, Yonsei-ro, Seodaemun-gu, Seoul, Republic of Korea Email: hyunjinsong@yonsei.ac.kr

Kyungmo Kim

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(Additional references are available upon request)