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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," *117*th *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). "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.

RESEARCH EXPERIENCES

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

━━━━━ AWARDS & GRANTS

2020 **Best Graduate Student Paper (First Prize)** ₩ 1,000,000 (≈ $900)
Korean Society for Journalism & Communication Studies

2020 **Distinguished Dissertation Award**
Yonsei University

2018 **Institute of Convergence Science (ICONS)** ₩ 3,000,000 (≈ $2,500)
Yonsei University

2017–2020 **Brain Korea 21+** ₩ 14,400,000 (≈ $12,000)
National Research Foundation (NRF)

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

━━━━━ 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 Equations (*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 COM6604: 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 COM6600: Online Data Collection and Analysis (*Prof. Sang Yup Lee*)
2016 COM3164: Data Communication Science (*Prof. Young Min Baek*)

▬▬▬ **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

▬▬▬ **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

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(Additional references are available upon request)