+82 (10) 8324 7780
chaejehoon@yonsei.ac.kr
https://jehoonchae.github.io

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," *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.

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 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*

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

(Additional references are available upon request)