

JE HOON CHAE

RESEARCH INTERESTS **Political Communication:** misinformation and political information processing, news framing, deliberative democracy, and populism
Quantitative and Computational Methods: applying computational methods to causal inference, automated text analysis, and online experiment

EDUCATION **Yonsei University, Department of Communication** *Sep 2017 – Feb 2020*
 M.S., Media Communication
 Dissertation: The Effect of Fact-Check News and Perceived Media Bias
 Committee: Sang Yup Lee (Chair), Joohan Kim, Kyungmo Kim
 Awards:
 - Distinguished Dissertation Research Award (Yonsei University)
 - First Prize, The Best Graduate Student Paper (Korean Communication Association)
Yonsei University, Department of Communication *Mar 2012 – Aug 2017*
 B.A., Communication

WORKS IN PROGRESS [3] **Chae, J. H.**, Song, H., & Lee, S. Y. (In Preparation). Perceiving Fact-Checks as Biased but Nevertheless Persuaded? Effects of Fact-Checking News Delivered by Partisan Media. [[Brief Summary](#)]
 [2] Min, S., **Chae, J. H.**, Lee, J., & Lee, S. Y. (In Preparation). Image as data: How Instagram photos reveal individual's characteristics and personality. [[Brief Summary](#)] [[Slides](#)]
 [1] Min, S., **Chae, J. H.**, & Han, S. (In Preparation). Event segmentation in memory for real-world social events: A case study on COVID-19. [[Brief Summary](#)] [[Slides](#)]

CONFERENCE PRESENTATION [8] **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.
 [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)** [[Link \(Korean\)](#)]
 [4] Min, S., **Chae, J. H.**, Lee, J. H., & 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.

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| AWARDS & HONORS | The Best Graduate Student Paper (First Prize) | 2020 |
| | Korean Communication Association | |
| | Distinguished Dissertation Award | 2020 |
| | Yonsei University | |
| | Academic Achievement Excellence Award | 2015 |
| | Yonsei University | |
| SCHOLARSHIPS | Brain Korea 21+ Scholarship | 2017 – 2020 |
| | National Research Foundation (NRF) | |
| | Teaching Assistant Scholarship | 2019 – 2020 |
| | Department of Communication, Yonsei University | |
| | Research Assistant Scholarship | 2017 – 2018 |
| | Department of Communication, Yonsei University | |
| GRANTS | Brain Korea 21+ | 2017 – 2020 |
| | Research assistant (PI: Yong-Chan Kim) | |
| | Team: Creative Applications of Communication Technologies and Social Integration | |
| | Institute of Convergence Science (ICONS) | 2018 – 2019 |
| | Co-investigator (\$3,000) | |
| | Team: Exploration of the Neuro-Computational, Psychological, and Social Systems (ENCOMPASS) | |
| TEACHING EXPERIENCE | Text Mining with Python | Jan 2020 – Mar 2020 |
| | Department of Physical Education, Yonsei University | |
| | Invited lecturer | |
| | Eight weeks course addressing machine learning based text analysis | |
| | Communication Text Mining (COM4206) | Fall 2019 |
| | Department of Communication, Yonsei University | |
| | Teaching assistant (Instructor: Sang Yup Lee) | |
| | Public Relations (COM3128) | Spring 2019 |
| | Department of Communication, Yonsei University | |
| | Teaching assistant (Instructor: Jungho Han) | |
| | Theories of Advanced Public Relation (COM3144) | Fall 2017 |
| | Department of Communication, Yonsei University | |
| | Teaching assistant (Instructor: Jungho Han) | |
| WORKING EXPERIENCE | Aide for Member of the National Assembly | 2014 |
| | National Assembly (Assembly Member: Hak-Jae Lee) | |
| | Internship of New Media Communication | |

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| TRAINING | Summer Institutes in Computational Social Science (SICSS) | <i>Jul 2021</i> |
| | Keio University, Tokyo | |
| | Instructors: Hirokazu Shirado and Makiko Nakamuro | |
| | Generalized Linear Model | <i>May 2019</i> |
| | Korea Social Science Data Archive, Seoul National University | |
| | Instructor: Seongsoo Choi | |
| | Subjects: logit/multinomial regression, moderation and mediation | |
| | Linear Algebra for Data Science | <i>Oct 2018</i> |
| | Department of Communication, Yonsei University | |
| | Instructor: Sang Yup Lee | |
| | Statistical Science with R | <i>Aug 2018</i> |
| | Department of Statistics, Yonsei University | |
| SKILLS | Statistical Modeling | |
| | Regression: Fixed effect regression, IV-regression, RDD, lme4 | |
| | Bayesian parameter estimation: MCMC, Variational Inference, Stan, brms | |
| | Structural equation model: lavaan | |
| | Mediation/moderation: mediation, processR | |
| | Time-series modeling: ARIMA, HMM, VAR | |
| | Network analysis: ERGM, QAP | |
| | Behavioral Data Analysis | |
| | Randomized controlled experiment: DeclareDesign | |
| | Online panel platform: Mturk, Lucid | |
| | Survey: Qualtrics, Google Forms | |
| | Online Data Analysis | |
| | Web-scraping: BeautifulSoup4, scrapy, Selenium, Instagram Scraper | |
| | Social media data collection: Tweepy, rtweet | |
| | Web-based experiment: Empirica, breadboard | |
| | Machine Learning | |
| | Penalized regression: Lasso, Ridge, Elastic Net | |
| | Dimensionality reduction: PCA, <i>t</i> -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 | |
| | Automated Text Analysis | |
| | Pre-processing: spaCy, nltk, spacyr, quanteda, konlpy, soynlp | |
| | Topic modeling: LSA, LDA, STM, keyATM, rectr | |
| | Sentiment analysis: Dictionary-based approach, LIWC, (Semi-) Supervised ML | |
| | Word embedding: word2vec, Glove, fastText, BERT | |
| | Programming/Statistical Language and Tools | |
| | Programming language: Python, Java, JavaScript | |
| | Statistical tools: R, Stata, SPSS, Jamovi, JASP | |
| | Other language or tools: \LaTeX , Git, GitHub, HTML, CSS, Markdown | |

REFERENCES Sang Yup Lee

Professor of Communication

Professor of Digital Analytics

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50, Yonsei-ro, Seodaemun-gu, Seoul, Republic of Korea

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Hyunjin Song

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Kyungmo Kim

Professor of Communication

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(Additional references are available upon request)