

JE HOON CHAE

RESEARCH INTERESTS **Political Communication:** Political misinformation and disinformation, political/affective polarization, persuasion effect, media bias perception, news framing, and deliberative democracy

Quantitative and Computational Methods: Automated text analysis, image data analysis, large-scale web-based experimental design, causal inference, Bayesian estimation, and network analysis

EDUCATION **Yonsei University** Sept 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
 · Award:
 - Distinguished Dissertation Research Award (Yonsei University)
 - First Prize, The Best Graduate Student Paper (Korean Communication Association)

Yonsei University Mar 2012 – Aug 2017
 B.A., Communication

WORKS IN PROGRESS **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. [[Working Paper](#)]

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](#)]

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 **Chae, J. H.** (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 (Scheduled).

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 (Scheduled).

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**

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 \(Korean\)](#)]

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.

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.

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.

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 & HONORS	The Best Graduate Student Paper (First Prize) Korean Communication Association	2020
	Distinguished Dissertation Award Yonsei University	2020
	Academic Achievement Excellence Award Yonsei University	2015
TEACHING EXPERIENCE	Invited Lecturer Department of Physical Education (Yonsei University) Text Mining with Python Taught machine learning based text analysis and web-scraping	Jan 2020 – Mar 2020
	Teaching Assistant Department of Communication (Yonsei University) COM4206: Communication Text Mining (Instructor: Sang Yup Lee, Ph.D.)	Fall 2019
	Teaching Assistant Department of Communication (Yonsei University) COM3128: Public Relations (Instructor: Jungho Han, Ph.D.)	Spring 2019
	Teaching Assistant Department of Communication (Yonsei University) COM3144: Theories of Advanced Public Relation (Instructor: Jungho Han, Ph.D.)	Fall 2017
GRANTS	Brain Korea 21+ Research Assistant Team: Creative Applications of Communication Technologies and Social Integration (PI: Yong-Chan Kim, Ph.D.)	July 2017 – Feb 2020
	ICONS (Institute of Convergence Science) Co-investigator (\$3,000) Team: ENCOMPASS (Exploration of the Neuro-Computational, Psychological, and Social Systems)	2018 – 2019

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	
WORKING EXPERIENCE	National Assembly	2014
	Aide for Member of the National Assembly Internship of New Media Communication (National Assembly Member, Hak-Jae Lee)	
TRAINING	Summer Institutes in Computational Social Science (SICSS)	July 2021 (<i>scheduled</i>)
	Keio University, Tokyo	
	Generalized Linear Model	May 2019
	Korea Social Science Data Archive, Seoul National University	
	Linear Algebra for Data Science	Oct 2018
	Department of Communication, Yonsei University	
	Statistical Science with R	Aug 2018
	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	
	Dimentionality 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	

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 Tools: \LaTeX , Git, Github, HTML, CSS, Markdown

REFERENCES Sang Yup Lee

Professor of Communication and Digital Analytics

Department of Communication, Yonsei University

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

sangyuplee@yonsei.ac.kr

Hyunjin Song

Professor of Communication

Department of Communication, Yonsei University

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

hyunjinsong@yonsei.ac.kr

<https://www.hyunjinsong.com>

Kyungmo Kim

Professor of Communication

Department of Communication, Yonsei University

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

kkmo@yonsei.ac.kr