

## JE HOON CHAE

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

**Quantitative and Computational Methods:** applying computational methods to causal inference, automated text analysis, and online experiment

**EDUCATION** **M.S., Media Communication, Yonsei University** *Sep 2017 – Feb 2020*  
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)

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

**WORKS IN** [3] **Chae, J. H.**, Song, H., & Lee, S. Y. (In Preparation). Perceiving Fact-Checks as Biased  
**PROGRESS** 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** [8] **Chae, J. H.**, Song, H., & Lee, S. Y. (2021, August). "Perceiving Fact-Checks as Biased  
**PRESENTATION** but Nevertheless Persuaded? Effects of Fact-Checking News Delivered by Partisan Media", *116<sup>th</sup> Annual Meeting of American Sociological Association (ASA)*, Virtual Conference (Scheduled).  
[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", *71<sup>th</sup> Annual Conference of International Communication Association (ICA)*, Virtual Conference (Scheduled).

- [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", *10<sup>th</sup> 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", *5<sup>th</sup> International Conference on Computational Social Science (IC<sup>2</sup>S<sup>2</sup>)*, 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.

<b>AWARDS &amp; HONORS</b>	<b>The Best Graduate Student Paper (First Prize)</b>	2020
	Korean Communication Association	
	<b>Distinguished Dissertation Award</b>	2020
	Yonsei University	
	<b>Academic Achievement Excellence Award</b>	2015
	Yonsei University	

<b>GRANTS</b>	<b>Brain Korea 21+</b>	2017 – 2020
	Research Assistant	
	Team: Creative Applications of Communication Technologies and Social Integration	
	PI: Yong-Chan Kim	
	<b>ICONS (Institute of Convergence Science)</b>	2018 – 2019
	Co-investigator (\$3,000)	
	Team: ENCOMPASS	
	(Exploration of the Neuro-Computational, Psychological, and Social Systems)	

SCHOLARSHIPS	<b>Brain Korea 21+ Scholarship</b>	2017 – 2020
	National Research Foundation (NRF)	
	<b>Teaching Assistant Scholarship</b>	2019 – 2020
	Department of Communication, Yonsei University	
	<b>Research Assistant Scholarship</b>	2017 – 2018
	Department of Communication, Yonsei University	
TEACHING	<b>Invited Lecturer</b>	<i>Jan 2020 – Mar 2020</i>
EXPERIENCE	Department of Physical Education (Yonsei University)	
	Text Mining with Python	
	Eight weeks course addressing machine learning based text analysis	
	<b>Teaching Assistant</b>	<i>Fall 2019</i>
	Department of Communication (Yonsei University)	
	COM4206: Communication Text Mining (Instructor: Sang Yup Lee)	
	<b>Teaching Assistant</b>	<i>Spring 2019</i>
	Department of Communication (Yonsei University)	
	COM3128: Public Relations (Instructor: Jungho Han)	
	<b>Teaching Assistant</b>	<i>Fall 2017</i>
	Department of Communication (Yonsei University)	
	COM3144: Theories of Advanced Public Relation (Instructor: Jungho Han)	
TRAINING	<b>Summer Institutes in Computational Social Science (SICSS)</b>	<i>Jul 2021 (scheduled)</i>
	Keio University, Tokyo	
	Instructors: Hirokazu Shirado and Makiko Nakamuro	
	<b>Generalized Linear Model</b>	<i>May 2019</i>
	Korea Social Science Data Archive, Seoul National University	
	Instructor: Seongsoo Choi	
	Subjects: logit/multinomial regression, moderation and mediation	
	<b>Linear Algebra for Data Science</b>	<i>Oct 2018</i>
	Department of Communication, Yonsei University	
	Instructor: Sang Yup Lee	
	<b>Statistical Science with R</b>	<i>Aug 2018</i>
	Department of Statistics, Yonsei University	
WORKING	<b>Aide for Member of the National Assembly</b>	2014
EXPERIENCE	National Assembly	
	Internship of New Media Communication	
	National Assembly Member: Hak-Jae Lee	

**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, *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  
Professor of Digital Analytics  
Department of Communication, Yonsei University  
50, Yonsei-ro, Seodaemun-gu, Seoul, Republic of Korea  
Email: [sangyuplee@yonsei.ac.kr](mailto:sangyuplee@yonsei.ac.kr)

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Department of Communication, Yonsei University  
50, Yonsei-ro, Seodaemun-gu, Seoul, Republic of Korea  
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(Additional references are available upon request)