chaejehoon@yonsei.ac.kr https://jehoonchae.github.io

JE HOON CHAE

RESEARCH Political Communication: Political polarization, misinformation, news framing, deliberative INTERESTS 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

PROGRESS

- WORKS IN [3] Chae, J. H., Song, H., & Lee, S. Y. (In prepartion). 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 prepartion). Image as data: How Instagram photos reveal individual's characteristics and personality. [Brief Summary] [Slides]
 - [1] Min, S., Chae, J. H., & Han, S. (In prepartion). Event segmentation in memory for real-world social events: A case study on COVID-19. [Brief Summary] [Slides]

Presentation

- CONFERENCE [9] 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.
 - [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)]

Aug 2018

- [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," *5*th *International Conference on Computational Social Science* (*IC*²*S*²), 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 &	The Best Graduate Student Paper (First Prize), Korean Communication Associate	tion 2020
Honors	Distinguished Dissertation Award, Yonsei University	2020
	Academic Achievement Excellence Award, Yonsei University	2015
C	Paris Vance 21 Calcaloudin National Parasada Francisco (NDF)	2017 2020
SCHOLARSHIPS	Brain Korea 21+ Scholarship, National Research Foundation (NRF)	2017 - 2020
	Teaching Assistant Scholarship, Yonsei University	2019 – 2020
	Research Assistant Scholarship, Yonsei University	2017 – 2018
Teaching	Text Mining with Python	Jan 2020 – Mar 2020
Experience	Department of Physical Education, Yonsei University	
	Invited lecturer (Eight weeks course addressing machine learning based text at	nalysis)
	Communication Text Mining	Fall 2019
	Department of Communication, Yonsei University	
	Teaching assistant (Instructor: Sang Yup Lee)	
	Public Relations	Spring 2019
	Department of Communication, Yonsei University	
	Teaching assistant (Instructor: Jungho Han)	
	Theories of Advanced Public Relation	Fall 2017
	Department of Communication, Yonsei University	
	Teaching assistant (Instructor: Jungho Han)	
Training	Summer Institutes in Computational Social Science (SICSS)	Jul 2021
	Keio University, Tokyo	jiii 2021
	Instructors: Hirokazu Shirado and Makiko Nakamuro	
	Generalized Linear Model	May 2019
	Korea Social Science Data Archive, Seoul National University	1,100, 2017
	Instructor: Seongsoo Choi	
	Linear Algebra for Data Science	Oct 2018
	Department of Communication, Yonsei University	30, 2010
	Instructor: Sang Yup Lee	
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Instructors: Sangwook Kang, Taeyoung Park, and Hyunjoong Kim

Introduction to Statistics with R

Department of Statistics, 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)

WORKING Aide for Member of the National Assembly

2014

EXPERIENCE National Assembly (Assembly Member: Hak-Jae Lee)

Internship of New Media Communication

SKILLS Statistical Modeling

Regression: Fixed effect regression, IV-regression, RDD, Ime4

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 language or tools: LTEX, Git, GitHub, HTML, CSS, Markdown

REFERENCES Sang Yup Lee

Professor of Communication

Professor of Digital Analytics

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Hyunjin Song

Professor of Communication

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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)