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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   *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
· 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., 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 (Scheduled). [**Working Paper**]

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). **[Working Paper]**

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. **[Brief Summary] [Slides]**
· **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. **[Working Paper]**
· **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. **[Brief Summary] [Slides]**

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 (IC^{2}S^2)*, 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**	*Jan 2020 – Mar 2020*

Invited Lecturer *Jan 2020 – Mar 2020*
Department of Physical Education (Yonsei University)
Text Mining with Python
Taught machine learning based text analysis and web-scraping

Teaching Assistant *Fall 2019*
Department of Communication (Yonsei University)
COM4206: Communication Text Mining (Instructor: Sang Yup Lee, Ph.D.)

Teaching Assistant *Spring 2019*
Department of Communication (Yonsei University)
COM3128: Public Relations (Instructor: Jungho Han, Ph.D.)

Teaching Assistant *Fall 2017*
Department of Communication (Yonsei University)
COM3144: Theories of Advanced Public Relation (Instructor: Jungho Han, Ph.D.)

GRANTS **Brain Korea 21+** *Jul 2017 – Feb 2020*
Research Assistant
Team: Creative Applications of Communication Technologies and Social Integration
(PI: Yong-Chan Kim, Ph.D)

ICONS (Institute of Convergence Science) *2018 – 2019*
Co-investigator ($3,000)
Team: ENCOMPASS (Exploration of the Neuro-Computational, Psychological, and
Social Systems)

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	**Linear Algebra for Data Science**	*Oct 2019*
	Department of Communication, Yonsei University	
	Applied Linear Regression	*May 2019*
	Korea Social Science Data Archive, Seoul National 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**
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