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JE HOON CHAE

RESEARCH INTERESTS
Political Communication: Polarization, misinformation, political rhetoric, and news framing
Quantitative and Computational Methods: Applying computational methods to causal inference, automated text analysis, and online experiment

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
Awards:
   - 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 & Theology

PUBLICATIONS
Works in progress

[3] **Chae, J. H.**, Song, H., & Lee, S. Y. (in progress). Perceiving Fact-Checks as Biased but Nevertheless Persuaded? Effects of Fact-Checking News Delivered by Partisan Media.

[2] Min, S., **Chae, J. H.**, Lee, J., & Lee, S. Y. (in progress). Image as Data: How Instagram photos reveal individual's characteristics and personality.

[1] Min, S., **Chae, J. H.**, & Han, S. (in progress). Event Segmentation in Memory for Real-World Social Events: A case study on COVID-19.

CONFERENCE PRESENTATIONS
[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)]

[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.

AWARDS & HONORS	**First Prize, The Best Graduate Student Paper**, Korean Communication Association	*2020*
	Distinguished Dissertation Award, Yonsei University	*2020*
	Academic Achievement Excellence Award, Yonsei University	*2015*

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*

GRANTS	**Brain Korea 21+**, National Research Foundation (NRF) Research assistant (PI: Yong-Chan Kim) *Creative Applications of Communication Technologies and Social Integration*	*2017 – 2020*
	Institute of Convergence Science (ICONS), Yonsei University Co-investigator ($3,000) *Exploration of the Neuro-Computational, Psychological, and Social Systems (ENCOMPASS)*	*2018 – 2019*

TEACHING EXPERIENCES	**Invited lecturer**, Web-Scraping and Text Mining with Python Graduate, Department of Physical Education, Yonsei University	*Jan 2020 – Mar 2020*
	Teaching assistant, COM4206: Communication Text Mining Undergraduate, Department of Communication, Yonsei University	*Fall 2019*
	Teaching assistant, COM3128: Public Relations Undergraduate, Department of Communication, Yonsei University	*Spring 2019*
	Teaching assistant, COM3144: Theories of Advanced Public Relation Undergraduate, Department of Communication, Yonsei University	*Fall 2017*

WORKING EXPERIENCE	**Aide for Member of the National Assembly** National Assembly (Assembly Member: Hak-Jae Lee)	*2014*

TRAINING	**Summer Institutes in Computational Social Science (SICSS)**	*Jul 2021*

Keio University, Tokyo
Organizers: Matthew Salganik and Christopher Bail
Instructors: Hirokazu Shirado and Makiko Nakamuro

UT Summer Statistics Institute *May 2021*

Department of Statistics and Data Sciences, University of Texas at Austin
Causal Inference with Observational Data
Instructor: Stephen Jessee

Deep Learning and Artificial Intelligence Summer School (DLAI5) *May 2021*

APNNS/IEEE-CIS Education Forum Series
Instructor: Jonathan H. Chan

Generalized Linear Model *May 2019*

Korea Social Science Data Archive, Seoul National University
Logit/probit and mediation/moderation model
Instructor: Sung-Soo Choi

Linear Algebra for Data Science *Oct 2018*

Department of Communication, Yonsei University
Instructor: Sang Yup Lee

Introduction to Statistics with R *Aug 2018*

Department of Statistics, Yonsei University
Instructors: Sangwook Kang, Taeyoung Park, and Hyunjoong Kim

SKILLS **Statistical Modeling**

Advanced regression: Multilevel regression, `lme4`
Causal inference: Matching, IV-regression, Difference in Difference, Regrssion Discontinuity
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`
Survey: Mturk, Lucid, 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

Preprocessing: `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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Department of Communication, Yonsei University

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Kyungmo Kim

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(Additional references are available upon request)