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

# **JE HOON CHAE**

# **INTERESTS**

**RESEARCH** 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 Chae, J. H., Song, H., & Lee, S. Y. (In Prepartion). Perceiving Fact-Checks as Biased but Nevertheless PROGRESS Persuaded? Effects of Fact-Checking News Delivered by Partisan Media. [Working Paper]

> 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]

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 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). [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", 10<sup>th</sup> 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", 5<sup>th</sup> International Conference on Computational Social Science (IC<sup>2</sup>S<sup>2</sup>), 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 & The Best Graduate Student Paper (First Prize)

2020

**HONORS** Korean Communication Association

# **Distinguished Dissertation Award**

2020

Yonsei University

## **Academic Achievement Excellence Award**

2015

Yonsei University

#### **TEACHING** Invited Lecturer

Ian 2020 – Mar 2020

**EXPERIENCE** 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.)

# WORKING National Assembly

2014

**EXPERIENCE** Aide for Member of the National Assembly

Internship of New Media Communication (National Assembly Member, Hak-Jae Lee)

May 2019

Aug 2018

# **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 - 2019Co-investigator (\$3,000) Team: ENCOMPASS (Exploration of the Neuro-Computational, Psychological, and Social Systems) SCHOLARSHIPS Brain Korea 21+ Scholarship 2017 - 2020National Research Foundation (NRF) **Teaching Assistant Scholarship** 2019 - 2020Department of Communication, Yonsei University Research Assistant Scholarship 2017 - 2018Department of Communication, Yonsei University TRAINING Linear Algebra for Data Science Oct 2019 Department of Communication, Yonsei University

# SKILLS Statistical Modeling

Regression: Fixed effect regression, IV-regression, RDD, 1me4

Korea Social Science Data Archive, Seoul National University

Bayesian Parameter Estimation: MCMC, Variational Inference, Stan, brms

Structural Equation Model: lavaan

Mediation/Moderation: mediation, processR Time-Series Modeling: ARIMA, HMM, VAR

Department of Statistics, Yonsei University

Network Analysis: ERGM, QAP

#### **Behavioral Data Analysis**

**Applied Linear Regression** 

Statistical Science with R

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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# Hyunjin Song

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