

## JE HOON CHAE

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### RESEARCH INTEREST

**Political Communication**; Polarization; Deliberative Democracy; Political Rhetoric.  
**Computational Social Science**; Causal Inference; Text-as-Data; Online Experiment.

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### EDUCATION

- 2020 **Yonsei University**  
M.S. in Media Communication
- 2017 **Yonsei University**  
B.A. in Communication & Theology

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### WORKING PAPERS

- 3 [Perceiving Fact-Checks as Biased but Nevertheless Persuaded? Effects of Fact-Checking News Delivered by Partisan Media.](#) (Joint work with Hyunjin Song & Sang Yup Lee)
- 2 [Image as Data: How Instagram photos reveal individual's characteristics and personality.](#) (Joint work with Seokyoung Min, Jonghyun Lee, & Sang Yup Lee)
- 1 [Event Segmentation in Memory for Real-World Social Events: A case study on COVID-19.](#) (Joint work with Seokyoung Min & Sanghoon Han)

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### CURRENT PROJECTS

- 2 Measuring News Quality of International News on Internet Portal. (Joint work with Kyungmo Kim, Jaekyoung Lee, & Sohee Han)
- 1 Predicting Depression Symptom with Images: Application of auto-encoder. (Joint work with Jonghyun Lee, Seokyoung Min, & Sang Yup Lee)

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### CONFERENCE PRESENTATIONS

- 10 **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," 117<sup>th</sup> *Annual Meeting of American Political Science Association (APSA)*, Virtual Conference.
- 9 **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," 116<sup>th</sup> *Annual Meeting of American Sociological Association (ASA)*, Virtual Conference.
- 8 Min, S., **Chae, J. H.**, Lee, J., & Lee, S. Y. (2021, July). "Identifying individuals using topic patterns of Instagram photos," 7<sup>th</sup> *International Conference on Computational Social Science (IC<sup>2</sup>S<sup>2</sup>)*, 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," 71<sup>th</sup> *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)**
- 4 Min, S., **Chae, J. H.**, Lee, J., & 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.

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#### AWARDS & GRANTS

2020	<b>First Prize, Best Graduate Student Paper</b> , Korean Communication Association	\$1,000
2020	<b>Distinguished Dissertation Award</b> , Yonsei University	
2018	<b>Institute of Convergence Science (ICONS)</b> , Yonsei University	\$3,000
2017–2020	<b>Brain Korea 21+</b> , National Research Foundation (NRF)	\$12,000
2015	<b>Academic Achievement Excellence Award</b> , Yonsei University	

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#### TEACHING EXPERIENCE

##### **Yonsei University (Graduate Invited Lecturer)**

2020 Web-Scraping & Text Mining with Python, Department of Physical Education

##### **Yonsei University (Undergraduate Teaching Fellow)**

2019 COM4206: Communication Text Mining, Department of Communication

2019 COM3128: Public Relations, Department of Communication

2017 COM3144: Theories of Advanced Public Relation, Department of Communication

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#### RESEARCH EXPERIENCE

2021 Research Assistant for Kyungmo Kim

2018–2020 Research Assistant for Sang Yup Lee

2017 Research Assistant for Jungho Han

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## WORKING EXPERIENCE

2020–2022	Yongsan Ward Office	<i>Mandatory Military Service</i>
2014	National Assembly	<i>Internship of Aide for Member of the National Assembly</i>

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## LIFE EXPERIENCE

2014–	<b>Backpacker</b> Traversed Siberia from Vladivostok to Murmansk (Russia), Norway, Finland, North Pole (Svalbard), New Zealand, Hokkaido (Japan), Iceland, Andalusia (Southern Spain), Scotland, and worked at a hostel in Moscow
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## TRAINING

2021–	Harvard University Extension School (Courseworks of Mathematics, & Statistics)
2021	Harvard University, Summer School Program (Courseworks of Computer Science & Mathematics)
2021	Hartie School Data Science Summer School (DS3)
2021	Summer Institute for Computational Social Science (SICSS)
2021	University of Texas Austin, Summer Statistics Institute
2021	Deep Learning and Artificial Intelligence Summer School (DLAI5)
2019	4-weeks workshop of Generalized Linear Model, Korea Social Science Data Archive
2018	Linear Algebra for Data Science Workshop, Yonsei University
2018	Introduction to Statistics with R, Yonsei University

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## RELEVANT COURSEWORKS

### Harvard University Extension School

2021	MATH E-16: Calculus II: Series and Differential Equations	<i>Prof. Srdjan Divac</i>
2021	MATH E-156: Mathematical Statistics	<i>Prof. Dmitry Kurochkin</i>
2021	MATH E-23A: Linear Algebra and Real Analysis I	<i>Prof. Grant A. Murrey</i>
2021	STAT E-200: Quantitative Social Science Methods	<i>Prof. Gary King</i>

### Harvard University (Summer School Program)

2021	CSCI S-50: Intensive Introduction to Computer Science	<i>Prof. David Malan</i>
2021	MATH S-1A: Calculus I	<i>Prof. Carolyn Gardner-Thomas</i>

### Yonsei University

2020	SOC7625: Mathematical Sociology	<i>Prof. Jeong Han Kang</i>
2020	COM6604: Online Data Analysis Seminar	<i>Prof. Sang Yup Lee</i>
2020	LIS8016: Seminar in Text Mining	<i>Prof. Min Song</i>
2020	POL6516: Political Psychology	<i>Prof. Shang E. Ha</i>
2018	COM6600: Online Data Collection and Analysis	<i>Prof. Sang Yup Lee</i>
2016	COM3164: Data Communication Science	<i>Prof. Young Min Baek</i>

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## SKILLS

### Statistical Modeling

Multi-level regression (`lme4`), Causal inference (matching, two-stage least square, difference in difference, regression discontinuity), Bayesian estimation (Markov Chain Monte Carlo, Variational Inference, `Stan`, `brms`), Mediation (`mediation`, `processR`), Time-series modeling (ARIMA, Hidden Markov Model, Vector Autoregression), Network analysis (ERGM, QAP)

### Behavioral Data Analysis

Experimental design (`DeclareDesign`), Network-based experiment (`Empirica`, `breadboard`), Survey (MTurk, Lucid, Qualtrics, Google Forms)

### Online Data Analysis

Web-scraping (`BeautifulSoup4`, `scrapy`, `Selenium`, `Instagram Scraper`), Social media data collection (`Tweepy`, `rtweet`)

### 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, TensorFlow)

### Automated Text Analysis

Text 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, C, C++, JavaScript, Java), Statistical tools (R, Stata, SPSS, Jamovi, JASP), Other language or tools ( $\LaTeX$ , Git, GitHub, SQL, HTML, CSS, Markdown)

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## REFERENCES

### Sang Yup Lee

Professor of Communication & 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)

### Hyunjin (Jin) Song

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

### Kyungmo Kim

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(Additional references are available upon request)