Hyojin Chin



Email: tesschin@gmail.com Homepage: http://tesschin.github.io

Affiliation: Center for Mathematical and Computational Sciences, Institute for Basic Science (IBS)

Interests Understanding and designing human interactions with artificial intelligence

systems, Solving challenging social science problems (e.g., hate speech, AI ethics, and misinformation) using computational methods, and explaining and

predicting unknown behavior by analyzing data

Positions Institute for Basic Science (IBS) Daejeon, Korea

Senior Researcher 2020.09 – Present

Data Science Group,

Center for Mathematical and Computational Sciences

Innocean Worldwide Seoul, Korea Senior Account Planner 2011.04 – 2015.08

Marketing Department

Samsung ElectronicsSuwon, KoreaAssistant Manager2004.20 - 2011.04

Brand Marketing Department

Education Ph.D. in the Graduate School of Knowledge Service Engineering, KAIST

* Advisor: Mun Yong Yi 2015. 08 – 2020. 08

* Thesis Topic: Understanding How a Conversational Agent Should Respond to Users' Verbal Abuse

M.B.A. in Information and Media, KAIST College of Business

Certificate of Excellence 2013. 02 – 2014. 02

B.S in Food and Microbial Technology, Seoul Women's University

B.B.A in Business Administration 1999, 03 – 2004, 02

Honors	Rising Star Researcher (Google & KAIST ExploreCSR) Best Paper Award (HCI Korea 2022 Conference) Best Presentation Award (Knowledge Service Engineering, KAIST) Leadership Award (KAIST College of Business) The Best Student of The Year (KAIST College of Business) Best Idea Award (Innocean Worldwide) Outstanding Service Award (Samsung Electronics Leadership Center) Excellence Award in the Future Digital Appliance Idea Competition (Samsung Electronics)	2023 2022 2019 2014 2013 2012 2004 2003
Research Grants	Research Assistant, Planning and Design of Big Data-Based Expert mendation systems, National Research Foundation of Korea (NRF)	nce (IBS) - 2023.12 elligence I) - 2020.08 : Recom 2017.09 .earning, - 2016.12 with Big
Collaboration	SimSimi Inc. Collaborative researcher analyzing SimSimi Inc.'s data KT AI tech center Technical consulting for conversational agents	Present
Teaching Assistant		017, 2020 018, 2019
Guest Lecturer	Topic: Social Computing for Mental Health, <i>College of Nursing, Ewha Womans University</i> 2022.04 & 2023.04 Topic: Methodologies for Social Computing for Mental Health Research, <i>College of Nursing, Ewha Womans University</i> 2022.04	
Talks	Topic: Understanding Users' Chatbot Misuses and Health-related C tions in Chatbot Data KAIST exploreCSR: Rising Stars 2023, Seminar, KAIST N1 Building Topic: How Natural Language Processing can Help Healthcare Resea IBS Winter School on AI-Boosted Basic Science, IBS, Daejeon	2023. 02

Topic: Users' chatbot misuses and chatbot 's response styles

HCI Korea 2019, ETRI Tech. Workshop, Convention Center Jeju

Ad-hoc Reviewer ACM CHI 2023 (Special Recognition for Outstanding Review)

ACM CSCW 2022, 2023 (Special Recognition for Outstanding Review at 2022)

2019, 02

IJHCS, International Journal of Human-Computer Studies, 2021-23

Conference on Empirical Methods in Natural Language Processing, 2022

The World Wide Web Conference, 2021

Skills Data Science: Statistical Analysis, Data Mining, Data Visualization, Machine

Learning, Natural Language (Python, R, SPSS, SQL, Jamovi)

User Research Methods: Interviewing (In-depth & Focus Group)

Participant-Observation, Survey Design, Experiment Design, Usability Test **Design Conversational Agent:** Develop a text-base and voice-base conver-

sational agents.

References Dr. Meeyoung Cha, Associate Professor, School of Computing, KAIST,

meeyoungcha@kaist.ac.kr

Dr. Mun Yong Yi, Professor, Graduate School of Data Science, KAIST,

munyi@kaist.ac.kr

Dr. Chiyoung Cha, Associate Professor, College of Nursing, Ewha Womans

University, chiyoung@ewha.ac.kr

Publications List

Citations Google Scholar 160 citations (as of July 07, 2023)

https://scholar.google.com/citations?user=SCh8esQAAAAJ&hl=ko

Journals& Conferences User-Chatbot Conversations During the COVID-19 Pandemic: A Study Based on Topic Modeling and Sentiment Analysis

H. Chin, G.Lima, M. Shin, A. Zhunis, C. Cha, J Choi, and M. Cha

Journal of Medical Internet Research (JMIR), 2023, (SCIE, IF=7.40, Q1, 97.6%)

https://www.jmir.org/2023/1/e40922

Understanding the Categories and Characteristics of Depressive Moods in Chatbot Data

H. Chin, C. Jung, G. Baek, C. Cha, J. Choi, and M. Cha.

KIPS Transactions on Software and Data Engineering, September 2022. (KCI)

http://ktsde.kips.or.kr/digital-library/25979

Voices that Care Differently: Understanding the Effectiveness of a Conversational Agent with an Alternative Empathy Orientation and Emotional Expressivity in Mitigating Verbal Abuse

H. Chin and M.Y. Yi

International Journal of Human-Computer Interaction, 2022, (SCIE, SSCI, IF=4.7, Q1),

https://doi.org/10.1080/10447318.2021.1987680

An Experimental Study to Understand User Experience and Perception Bias Occurred by Fact-checking Messages

S. Park, Y. Park, H. Chin, J. Kang, and M. Cha

In proc. of the Web Conference (WWW), April 2021. (Acceptance rate = 20.6%) https://doi.org/10.1145/3442381.3450121

Empathy Is All You Need: How a Conversational Agent Should Respond to Verbal Abuse

H. Chin, L.W. Molefi, and M.Y. Yi.

In proc. of the ACM CHI Conference on Human Factors in Computing Systems, 2020, (Acceptance Rate=24.3%)

https://doi.org/10.1145/3313831.3376461

Explicit Content Detection in Music Lyrics Using Machine Learning

H. Chin, J. Kim, Y. Kim, J. Shin, and M.Y. Yi

In proc. of the IEEE International Conference on Big Data and Smart Computing (BigComp), 2018.

https://doi.org/10.1109/BigComp.2018.00085

Job Preference Analysis and Job Matching System Development for the Middle Aged Class

S. Kim, J. Jang, S. Kim, H. Chin, and M.Y. Yi

Journal of Intelligence and Information Systems, 2016. (KCI)

https://doi.org/10.13088/jiis.2016.22.4.247

Workshops& Posters

Algorithm-driven news outcomes on political knowledge and MeToorelated rumor beliefs

S.Y. Bae, **H. Chin**, and M. Cha, *In Extended Abstracts of the 2022 International Communication Association Conference*, 2022

Do differences in national or political identity matter more for preferences?

M. Whiting, S. Park, M. Cha, S.W. Lee, **H. Chin**, and M.M. Molaie, 8th The International Conference for Computational Social Science (IC2S2), 2022

A Study of Verbal Abuse Types and Conversational Agents' Response Styles

H. Chin and M.Y. Yi, In Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems (CHI EA '19), 2019

https://doi.org/10.1145/3290607.3312826

WatchOut: Facilitating Safe Driving Behaviors with Social Support

H. Chin, H. Zabihi, S. Park, M.Y. Yi, and U. Lee, *In Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '17)*, 2017

https://doi.org/10.1145/3027063.3053188

Conferences (Korean)

Depression-related discourse between AI chatbot and users: A qualitative study

G. Baek, C. Cha, J. Choi, M. Cha, and **H. Chin*** Proceedings of the Korean Information Science Society Conference, 2023

Contrastive Learning for Hate Speech Detection

C. Jung, H. Song, **H. Chin**, M. Shin, and M. Cha *Proceedings of the Korean Information Science Society Conference*, 2022

Unique Characteristics of Human-Chatbot Conversations and Their Potential for Mental Health Support

A. Zhunis, G. Lima, **H. Chin**, M. Shin, J. Choi, C. Cha and M. Cha. *Proceedings of the Korean Information Science Society Conference*, 2022

Characteristics and differences of depressive moods in Korean and English Chatbot Data

H. Chin G.Baek, C.Cha, J.Choi, and M.Cha. *Proceedings of HCI korea 2022 (Best Paper Award)*

A Study on the Categories and Characteristics of Depressive Moods in Chatbot Data

H. Chin, G.Baek, C.Cha, H. Im, J. Choi, and M. Cha. *Proceedings of the Korea Information Processing Society Conference*, 2021

Hate Speech Detection in Chatbot Data Using KoELECTRA

M. Shin, **H. Chin**, H. Song, J. Choi, H. Lim, and M. Cha. *Proceedings of the 33th Annual Conference on Human and Cognitive Language Technology, 2021*

A Study on the Influence of Contents of Internet News Comments on the Acceptance of New Car Products

H. Chin and M.Y. Yi. Proceedings of the Korean Information Science Society Conference, 2017

Job Preference and Selection Analysis of Senior People for Developing Senior Job Recommendation Algorithm

S. Kim, S. Kim, J. Jang. **H. Chin**, and M.Y. Yi. *Proceedings of the Korean Information Science Society Conference, 2016*

Requirement Analysis of Personalized Job Matching Service for Middle-Aged Adults in South Korea

J. Jang, D. Zhao, S. Kim, **H. Chin**, S. Kim, and M.Y. Yi. *Proceedings of HCI korea* 2016

Working Paper

Exploring the Influence of User Characteristics on Verbal Aggression Towards Social Chatbots, with M.Y. Yi

Exploring the Potential of Chatbots for Providing Emotional Support and Enhancing Mental Well-Being: A Cultural Perspective, with H. Song, M. Shin, G. Baek, C. Cha, C. Jung, J. Choi, and M. Cha

Empathetic conversations with chatbots for depression: An analysis of users' help-seeking patterns and commercial conversational agents with G. Baek, C. Cha, J. Choi, and M. Cha

Context-Aware Offensive Language Detection in Chatbot-Human Conversation Data, with M. Shin, H. Song, Y. Choi, and M. Cha

Trust and Empathy in Social Chatbots: A Three-year Analysis of Superusers and their Language, Topics, and Emotions, with A. Zhunis, and M.Cha

Media Coverage

Conversation with AI chatbot was found to reduce negative moods during COVID-19

EN-Medicalxpress, Jan 2023, https://shorturl.at/cvHS7

EN-Prnewswire, Mar 2023, https://rb.gy/m4fcp

KR-YTN, Jan 2023, https://www.youtube.com/watch?v=U_irLjK5wFQ

KR-Newsis, Jan 2023, https://rb.gy/ejmxh

KR-Yonhapnews, Jan 2023, https://rb.gy/mx669

KR-Herald, Jan 2023, https://rb.gy/jiumo

KR-Hankyoreh, Jan 2023, https://rb.gy/t3zkw

KR-Digitaltimes, Jan 2023, https://rb.gy/p0v36

KR-Chosun Biz, Jan 2023, https://rb.gy/6lkft

KR-DongaScience, Jan 2023, https://rb.gy/lsexh