

Kunwoo Park

bywords.github.io
ssu-humane.github.io
kunwoo.park@ssu.ac.kr

CURRENT POSITION	School of AI Convergence, Soongsil University, Seoul, South Korea <i>Assistant professor</i> <i>Principal Investigator of the Human-Centered Data Science and Language Technology (HUMANE) Lab.</i>	Mar. 2021 - Present
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RESEARCH INTEREST	Data Science	Natural Language Processing	Computational Social Science
	I study data science and language technologies to tackle social problems, such as online misinformation, bias, and hate expressions. Recent research focuses on contrastive learning: sentence embedding and vision-and-language models.		

EDUCATION	KAIST, Daejeon, South Korea	Feb. 2018
	<i>Ph.D. in Graduate School of Web Science Technology, School of Computing</i>	
	<ul style="list-style-type: none"> ○ Honored thesis: Identification and analysis of key factors driving longevity in online social platforms ○ Committee: Meeyoung Cha (advisor), Sung-hyon Myaeng, Sue Moon, Juyong Park, Dongman Lee 	

KAIST, Daejeon, South Korea Feb. 2014
M.S. in Division of Web Science and Technology
 ◦ Advisor: Meeyoung Cha
 ◦ Thesis: Gender swapping and its effects in MMORPGs

Kwangwoon University, Seoul, South Korea
B.S. in Computer Science

ACADEMIC SERVICES

Co-tutorial Chair at *FAccT* (2022), Session Chair at *KDD* (2021).

Program Committee (Reviewer) at *AAAI* (2021-23), *ACL* (2021-23), *EACL* (2023), *EMNLP* (2021-22), *KDD* (2021-23), *AACL* (2022), *WebConf* (2021-23), *WSDM* (2022-23) *ICWSM* (2015-23), and *SocialNLP* (2021-22).

Reviewer at *Palgrave Communications*, *Online Information Review*, *Journal of Advertising*, *Information Processing and Management*, *International Journal of Press/Politics*, *EPJ Data Science*, *IEEE Access*, *Computational Communication Research*, *International Journal of Communication*.

Student Volunteer at *WWW* (2017).

RESEARCH EXPERIENCES Postdoctoral Researcher at University of California, Los Angeles, USA Mar. 2020 – Feb. 2021
 Advisor: Jungseock Joo

Postdoctoral Researcher at Qatar Computing Research Institute, Doha, Qatar
 Advisor: Sanjay Chawla

Postdoctoral Researcher at KAIST, Daejeon, South Korea
Advisor: Meeyoung Cha

Research Associate at Qatar Computing Research Institute, Doha, Qatar
 Advisor: Haewoon Kwak
 Dec. 2016 – Aug. 2017

Research Assistant at Qatar Computing Research Institute, Doha, Qatar
 Advisor: Ingmar Weber

* indicates an equal contribution. † indicates the corresponding authorship of Dr. Park.

1. Seonyeong Song, Hyeonho Song, **Kunwoo Park**[†], Jiyoung Han, Meeyoung Cha. Detecting Contextomized Quotes in News Headlines by Contrastive Learning. *Findings of the European Chapter of the Association for Computational Linguistics (EACL)*, 2023. (to appear, BK IF=2)
2. Yingdan Lu, Jack Schaefer, **Kunwoo Park**, Jungseock Joo, Jennifer Pan. How Information Flows from the World to China. *The International Journal of Press/Politics*, 2022. (IF=4.495)
3. Haewoon Kwak, Jisun An, **Kunwoo Park**. Who is Missing? Characterizing Participation of Different Demographic Groups in a Korean Nationwide Daily Conversation Corpus. *The International AAAI Conference on Web and Social Media (ICWSM)*, 2022.
4. Hyewon Choi, Yejun Yoon, Seunghyun Yoon, **Kunwoo Park**[†]. How does fake news use a thumbnail? CLIP-based Multimodal Detection on the Unrepresentative News Image. *ACL workshop on Combating Online Hostile Posts in Regional Languages during Emergency Situation (ACL-W)*, 2022.
5. Hyeonho Song, **Kunwoo Park**[†], Meeyoung Cha. Finding epic moments in live content through deep learning on collective decisions. *EPJ Data Science*, 2021. (IF=4.333)
6. **Kunwoo Park**, Zhufeng Pan, Jungseock Joo. Who Blames or Endorses Whom? Entity-to-Entity Directed Sentiment Extraction in News Text. *Findings of the Annual Meetings of the Association for Computational Linguistics (ACL)*, 2021. (BK IF=4)
7. **Kunwoo Park**, Haewoon Kwak, Jisun An, and Sanjay Chawla. How-to Present News on Social Media: A Causal Analysis of Editing News Headlines for Boosting User Engagement. *The International AAAI Conference on Web and Social Media (ICWSM)*, 2021.
8. **Kunwoo Park**^{*}, Seunghyun Yoon^{*}, Minwoo Lee, Taegyun Kim, Meeyoung Cha, and Kyomin Jung. Learning to Detect Incongruence in News Headline and Body Text via a Graph Neural Network. *IEEE Access*, 2021. (IF=3.745)
Featured in KBS and Mathematics Donga (in Korean).
9. **Kunwoo Park**^{*}, Yu-i Ha^{*}, Su Jung Kim, Jungseock Joo, and Meeyoung Cha. Automatically Detecting Image-Text Mismatch on Instagram with Deep Learning. *Journal of Advertising*, 2021. (IF=6.302)
10. Danni Chen, **Kunwoo Park**, and Jungseock Joo. Understanding Gender Stereotypes and Electoral Success from Visual Self-presentations of Politicians in Social Media. *The ACM Multimedia Workshop on Media Analytics for Societal Trends (MM-W)*, 2020.
11. **Kunwoo Park**, Taegyun Kim, Seunghyun Yoon, Meeyoung Cha, and Kyomin Jung. BaitWatcher: A Lightweight Web Interface for the Detection of Incongruent News Headlines. *Disinformation, Misinformation, and Fake News in Social Media: Emerging Research Challenges and Opportunities (Book chapter)*, Springer, 2020.
12. **Kunwoo Park**, Haewoon Kwak, Hyeonho Song, and Meeyoung Cha. “Trust me, I have a Ph.D.”: A Propensity Score Analysis on the Halo Effect of Disclosing One’s Offline Social Status in Online Communities. *The International AAAI Conference on Web and Social Media (ICWSM)*, 2020. (AR=20%)
13. Jeongmin Kim, **Kunwoo Park**, Hyeonho Song, Jaimie Yejean Park, and Meeyoung Cha. Learning How Spectator Reactions Affect Popularity on Twitch. *IEEE International Conference on Big Data and Smart Computing (BigComp)*, 2020. (AR=23.7%)
14. **Kunwoo Park**^{*}, Seunghyun Yoon^{*}, Joongbo Shin, Hongjun Lim, Seungpil Won, Meeyoung Cha, and Kyomin Jung. Detecting Incongruity Between News Headline and Body Text via a Deep Hierarchical Encoder. *The AAAI Conference on Artificial Intelligence (AAAI)*, 2019. (BK IF=4, AR=16.2%)
Featured in YTN, Channel A, Joong daily, and many others (in Korean).
15. **Kunwoo Park**, Meeyoung Cha, and Eunhee Rhim. Positivity Bias in Customer Satisfaction Ratings. *The Web Conference (WWW)*, 2018. (BK IF=4, AR=17%)
Featured in etnews (in Korean).
16. **Kunwoo Park**, Meeyoung Cha, Haewoon Kwak, and Kuan-Ta Chen. Achievement and Friends: Key Factors of Player Retention Vary Across Player Levels in Online Multiplayer Games. *The International Conference on World Wide Web (WWW)*, 2017. (BK IF=4, AR=17%)

17. **Kunwoo Park**, Ingmar Weber, Meeyoung Cha, and Chul Lee. Persistent Sharing of Fitness App Status on Twitter. *The ACM International Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, 2016. (BK IF=3, AR=25%)
Featured in Mathematics Donga (in Korean).
18. **Kunwoo Park**, Jaewoo Kim, Jaram Park, Meeyoung Cha, Jiin Nam, Seunghyun Yoon, and Eunhee Rhim. Mining the Minds of Customers from Online Chat Logs. *The ACM International Conference on Information and Knowledge Management (CIKM)*, 2015. (BK IF=3, AR=25%)
19. Gareth Paul Beeston, Manuel Leon Urrutia, Caroline Halcrow, Xianni Xiao, Lu Liu, Jinchuan Wang, Jinho Jay Kim, and **Kunwoo Park**. Humour reactions in crisis: a proximal analysis of Chinese posts on sina weibo in reaction to the salt panic of march 2011. *The International Conference on World Wide Web (WWW)*, 2014.
20. **Kunwoo Park**, Jaram Park, SungKyu Park, Jaewoo Kim, Sejeong Kwon, Jinah Kwak, and Meeyoung Cha. Voice of the Employees Resonated in Online Bamboo Forests. *The International AAAI Conference on Web and Social Media Workshop on Social Computing for Workforce 2.0 (ICWSM-W)*, 2013.
21. **Kunwoo Park**, Seonggyu Lee, Eunae Kim, Minjee Park, Juyong Park, and Meeyoung Cha. Mood and Weather: Feeling the Heat? *The International AAAI Conference on Web and Social Media (ICWSM)*, 2013. (AR=21%)
22. **Kunwoo Park***, Jing-Kai Lou*, Meeyoung Cha, Juyong Park, Chin-Laung Lei, and Kuan-Ta Chen. Gender Swapping and User Behaviors in Online Social Games. *The International Conference on World Wide Web (WWW)*, 2013. (BK IF=4, AR=15%)
Featured in Mathematics Donga (in Korean).

PEER-REVIEWED DOMESTIC PUBLICATIONS

1. Hyeonho Song, **Kunwoo Park** and Meeyoung Cha. An Embedding Method of Emotes for the Detection of Popular Clips on Twitch.tv. *In Journal of KIISE*, 2020.
2. **Kunwoo Park** and Meeyoung Cha. Churn Analysis of Max Level Users in Online Games. *In Journal of KIISE*, 2017.
Featured in YTN, ThisIsGame, and many more (in Korean).

TEACHING EXPERIENCES

Data Science (2023 Spring)
 Deep Learning and Natural Language Processing (2022 Fall)
 AI-based Thinking and Problem Solving Skills (2022 Spring, 2021 Spring)
 C Programming and Exercises (2021 Fall)
 Discrete Mathematics (2021 Fall, 2022 Fall)
 Engineering Mathematics (2021 Spring)

HONORS

<i>Best PC Award, ICWSM</i>	Jun. 2021
<i>Best PC Award, The Web Conference</i>	Apr. 2021
<i>The Outstanding PhD Thesis Award, School of Computing, KAIST</i>	Feb. 2018
<i>Special Prize (the 1st place among college teams), R&D Competition at Artificial Intelligence, Ministry of Science and ICT, Republic of Korea</i>	Dec. 2017
<i>NAVER PhD Fellowship Award, NAVER Corp</i>	Jul. 2016
<i>Creative Award, Tour Big Data Analysis Competition, the Korean Culture & Tourism Institute</i>	Jul. 2014
<i>Student Travel Grant Award, the ICWSM, AAAI</i>	Jul. 2013
<i>Smart Award, IBM Smarter Planet Contest, IBM Korea</i>	Oct. 2010