

Chan Young Park

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RESEARCH INTERESTS

Natural language processing, computational social science, AI ethics and fairness, NLP for social good

My research centers on the ethical development of *socioculturally informed language technologies* that can adapt to individual users from different backgrounds. Its primary objectives are to mitigate Western-centric biases and fairness concerns in large language models and make them socially and culturally attuned, enabling them to provide equitable and inclusive services to diverse populations. My research encompasses three main areas: investigating fairness issues of NLP models across diverse languages and cultures (AI Ethics), improving NLP models with social contexts such as norms and values (NLP), as well as using NLP models to understand society and culture (CSS).

EDUCATION

Carnegie Mellon University

Ph.D., Language Technologies Institute, School of Computer Science

Aug 2018 - Present

· Adviser: Prof. Yulia Tsvetkov, GPA: 4.11/4.00

University of Washington

Visiting Ph.D. Student, Computer Science & Engineering

Sep 2021 - Present

Yonsei University

M.S., Computer Science, School of Integrated Technology

Mar 2016 - May 2018

B.S., Computer Science, School of Integrated Technology

Mar 2013 - Feb 2016

· Adviser: Prof. Songkuk Kim, M.S. GPA: 4.13/4.00, B.S. GPA: 4.09/4.00

· Magna Cum Laude

AWARDS

K&L Gates Presidential Fellowship

Oct 2023

Asian Deans' Forum 2023 - The Rising Stars Women in Engineering

Aug 2023

ACL Best Paper Award

July 2023

Wikimedia Foundation Research Award of the Year 2023

May 2023

UChicago Rising Stars in Data Science

Nov 2022

Overseas PhD Scholarship, Korea Foundation of Advanced Studies

Aug 2018 - May 2023

Undergraduate Scholarship, Korea Foundation of Advanced Studies

Mar 2015 - Feb 2016

Excellence Award, Ministry of Science of Korea

May 2015

Full-Ride Scholarship, Yonsei University

Mar 2013 - May 2018

PUBLICATIONS

Preprints

Yuhan Liu, Shangbin Feng, Xiaochuang Han, Vidhisha Balachandran, Chan Young Park, Sachin Kumar, Yulia Tsvetkov. [What Constitutes a Faithful Summary? Preserving Author Perspectives in News Summarization](#). In *arXiv*. **arXiv 2023**

Sachin Kumar, Chan Young Park, Yulia Tsvetkov. [GEN-Z: Generative Zero-Shot Text Classification with Contextualized Label Descriptions](#). In *arXiv*. **arXiv 2023**

Conferences/Journals

Chan Young Park*, Lucille Njoo*, Octavia Stappart, Marvin Thielk, Yi Chu and Yulia Tsvetkov. [TalkUp: Paving the Way for Understanding Empowering Language](#). In *Findings of the Association for Computational Linguistics: EMNLP 2023*. **EMNLP 2023**

Jihyung Moon, Dong-Ho Lee, Hyundong Cho, Woojeong Jin, Chan Young Park, Minwoo Kim, Jonathan May, Jay Pujara, and Sungjoon Park. [Analyzing Norm Violations in Live-Stream Chat](#). In *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing*. **EMNLP 2023**

Shangbin Feng, Chan Young Park, Yuhan Liu and Yulia Tsvetkov. [From Pretraining Data to Language Models to Downstream Tasks: Tracking the Trails of Political Biases Leading to Unfair NLP Models](#). In *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics*. **ACL 2023**
· Received **ACL Best Paper Award**.

Chan Young Park*, Julia Mendelsohn*, Anjalie Field*, Yulia Tsvetkov. [Challenges and Opportunities in Information Manipulation Detection: An Examination of Wartime Russian Media](#). In *Findings of the Association for Computational Linguistics: EMNLP 2022*. **EMNLP 2022**

Chan Young Park*, Anjalie Field*, Antonio Theophilo*, Janelle Watson-Daniels, and Yulia Tsvetkov. [An Analysis of Emotions and the Prominence of Positivity in #BlackLivesMatter Tweets](#). In *Proceedings of the National Academy of Sciences*, 2022. **PNAS 2022**

· Media Coverage: [“Analysis of #BlackLivesMatter social media content points to the power of positivity in online activism and large-scale social movements”](#) (UW Allen School News, 2022), [“Researchers Study Tweets To Understand Roles of Optimism and Hope in the Black Lives Matter Movement”](#) (CMU SCS News, 2022)

Anjalie Field, Chan Young Park, Kevin Z. Lin, and Yulia Tsvetkov. [Controlled Analyses of Social Biases in Wikipedia Bios](#). In *Proceedings of the ACM Web Conference*, 2022. **WWW 2022**

· Received **Wikimedia Foundation Research Award of the Year 2023**. Two papers were chosen among 180+ research papers published on or about Wikimedia projects during 2022.

Chan Young Park, Julia Mendelsohn, Karthik Radhakrishnan, Kinjal Jain, Tushar Kanakagiri, David Jurgens, and Yulia Tsvetkov. [Detecting Community Sensitive Norm Violations in Online Conversations](#). In *Findings of the Association for Computational Linguistics: EMNLP 2021*. **EMNLP 2021**

Chan Young Park*, Jimin Sun*, Hwijeen Ahn*, Yulia Tsvetkov, and David R. Mortensen. [Ranking Transfer Languages with Pragmatically-Motivated Features for Multilingual Sentiment Analysis](#). In *Proceedings of the Conference of the European Chapter of the Association for Computational Linguistics*, 2021. **EACL 2021**

Chan Young Park*, Xinru Yan*, Anjalie Field*, and Yulia Tsvetkov. [Multilingual Contextual Affective Analysis of LGBT People Portrayals in Wikipedia](#). In *Proceedings of International AAAI Conference on Web and Social Media*, 2021. **ICWSM 2021**

· Impact: collaboration with investigative journalists from the Washington Post to collect Chinese social media data and analyze sentiments expressed toward the black population during the pandemic, published as [“Video evidence of anti-black discrimination in China over coronavirus fears”](#) (The Washington Post, 2020)

Chan Young Park*, Hwijeen Ahn*, Jimin Sun*, and Jungyun Seo. [NLPDove at SemEval-2020 Task 12: Improving Offensive Language Detection with Cross-lingual Transfer](#). In *Proceedings of the Fourteenth Workshop on Semantic Evaluation*, 2020. **SemEval 2020**

Chan Young Park and Yulia Tsvetkov. [Learning to generate word-and phrase-embeddings for efficient phrase-based neural machine translation](#). In *Proceedings of the 3rd Workshop on Neural Generation and Translation*, 2019. **WNGT 2019**

INDUSTRY EXPERIENCE

Facebook AI
Research Intern

May 2021 - Sep 2021

- Developed models for *personalized sentiment classification*, specifically explored various pre-training objectives and methodologies to train transformer-based personalized language models. Location: Seattle, WA, Team: AI Integrity, Mentor: Hao Ma, Additional Mentors: Madian Khabsa, Simon Wang, Yuxiao Dong

Adobe Research

Research Intern

May 2019 - Aug 2019

- Developed *language generation models for procedural texts* such as instructions and recipes. Location: San Jose, CA, Team: NLP, Mentor: Doo Soon Kim

Research Intern

Jun 2018 - Aug 2018

- Developed *text segmentation* models. Location: San Jose, CA, Team: NLP, Mentor: Seokhwan Kim

Naver Clova AI

Research Intern

Jul 2017 - Nov 2017

- Conducted Research on Dialog State Tracking and developed a tool to visualize dialog response templates. Location: Seoul, Korea, Team: Dialog Systems, Mentor: Kyungduk Kim

TEACHING

Guest lecture for Natural Language Processing

Spring 2022

- University of Washington, Gave a lecture on text summarization

Guest lecture for Algorithms for NLP

Fall 2021

- Carnegie Mellon University, Gave a lecture on text summarization

Lecture for Low-Resource NLP Bootcamp

Fall 2020

- Carnegie Mellon University, Led a hands-on learning session for [Multilingual NLP](#)

TA for Algorithms for NLP

Fall 2019, Spring 2020

- Carnegie Mellon University, Developed assignments and quizzes, delivered lectures and recitations, and mentored student research projects.

TA for Theory of Algorithm

Fall 2016, Fall 2017

- Yonsei University, Developed homework assignments

INVITED TALKS

Measuring Social Biases Using Language Technologies

University of Arizona, Ethics Colloquium, Oct 2023

Socioculturally Aware Language Technologies

KAIST School of AI, Aug 2023

Socioculturally Aware Language Technologies

Aptima, Aug 2023

Multilingual Contextual Affective Analysis of LGBT People Portrayals in Wikipedia

Wikimedia Research Showcase, Jun 2023

Socioculturally Aware Language Technologies

KAIST School of Computing, Jun 2023

Challenges and Opportunities in Opinion Manipulation Detection

University of Chicago, Nov 2022

Challenges and Opportunities in Opinion Manipulation Detection

Text as Data (TADA) Conference, Oct 2022

Recent Advances in NLP and AI Ethics

Hyundai Vision Conference, Aug 2022

SERVICE

Mentoring

- Farhan Samir, PhD Student, UBC 2023
- Hayoung Jung, MS Student, UW 2023
- Lucille Njoo, PhD Student, UW 2023
- CMU K-12 Summit on AI for Social Good Symposium 2022
- CMU Graduate Application Support program 2020, 2021
- Hwijeen Ahn, CMU, Visiting MS Student → CMU LTI 2020
- Jimin Sun, CMU, Visiting MS Student 2020
- Xinru Yan, MS student, CMU 2020

Area Chairing

- EMNLP 2023: Ethics track

Workshop Organizing

- EMNLP 2024: *Customizable NLP: Progress and Challenges in Customizing NLP for a Domain, Application, Group, or Individual*

Reviewing

- ACL 2023
- EMNLP 2020, 2021, 2022, 2023
- CoNLL 2021, 2022
- NAACL SRW 2020, 2021
- NLP4PI Workshop 2021, 2022

SKILLS

- Computer-related: Python, C++, C, Java, React, Django, AWS, SQL, R, MATLAB
- Natural Language: English, Korean