

Yejin Bang

PH.D. CANDIDATE IN NLP & AI

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Education

The Hong Kong University of Science and Technology

PH.D. IN ELECTRONIC AND COMPUTER ENGINEERING

Hong Kong

Sept. 2019 - Present

- Supervisor: Prof. Pascale Fung
- Research Topic: Responsible AI, Evaluation of LLM, Value Alignment, Fact-checking, NLP

B.ENG. IN COMPUTER SCIENCE

Sept. 2015 - May 2019

Experience

Samsung Electronics

PH.D. INTERN

South Korea

July - Sept. 2023

- Implemented a text-based content recommendation model and classifier for a 10k+ user-based application.
- Collaborated with a cross-functional team of ML & SW engineers throughout the full development life cycle – functionality design, metric definition, result analysis, and deployment.

World Bank Group

IT SUMMER INTERN

Washington D.C., United States

Jun. - Aug. 2018 & 2019

- Contributed to building the financial instrument analytics and reporting application through data input automation, front-end development, and system testing.

Hong Kong Shanghai Bank Corporations (HSBC)

INDUSTRIAL PLACEMENT TRAINEE

Hong Kong

Jul. 2017 - Jan. 2018

- Developed and enhanced automated teller machine (ATM) PIN generation program and transaction imbalance checking utility, applying VBScript, Excel VBA, IBM RPG language.

Publications & Preprint

Mitigating Framing Bias with Polarity Minimization Loss

YEJIN BANG, NAYEON LEE, PASCALE FUNG. [EMNLP 2023 \(Short, findings\)](#)

A Multitask, Multilingual, Multimodal Evaluation of ChatGPT on Reasoning, Hallucination, and Interactivity

YEJIN BANG, SAMUEL CAHYAWIJAYA, NAYEON LEE, WENLIANG DAI, DAN SU, BRYAN WILIE, HOLY LOVENIA, ZIWEI JI, TIEZHENG YU, WILLY CHUNG, QUYET V. DO, YAN XU, PASCALE FUNG. [AACL 2023 \(Long; Area Chair Award\)](#)

Enabling Classifiers to Make Judgements Explicitly Aligned with Human Values

YEJIN BANG*, TIEZHENG YU*, ANDREA MADOTTO, ZHAOJIANG LIN, MONA DIAB, PASCALE FUNG. [TrustNLP Workshop @ACL 2023](#)

Towards Answering Open-ended Ethical Quandary Questions

YEJIN BANG, NAYEON LEE, TIEZHENG YU, LEILA KHALATBARI, YAN XU, SAMUEL CAHYAWIJAYA, DAN SU, BRYAN WILIE, ROMAIN BARRAUD, ELHAM J. BAREZI, ANDREA MADOTTO, PASCALE FUNG. [AI for Social Good Workshop @ AAAI 2023](#)

Survey of Social Bias in Vision-Language Models

NAYEON LEE, YEJIN BANG, HOLY LOVENIA, SAMUEL CAHYAWIJAYA, WENLIANG DAI, PASCALE FUNG. [Preprint. Arxiv.](#)

Survey of Hallucination in Natural Language Generation

ZIWEI JI, NAYEON LEE, RITA FRIESKE, TIEZHENG YU, DAN SU, YAN XU, ETSUKO ISHII, YEJIN BANG, ANDREA MADOTTO, PASCALE FUNG. [ACM Computing Surveys 2022.](#)

NeuS: Neutral Multi-News Summarization for Mitigating Framing Bias

NAYEON LEE, YEJIN BANG, TIEZHENG YU, ANDREA MADOTTO, AND PASCALE FUNG.. [NAACL 2022 \(Oral\)](#)

Casual Conversations v2: Designing a large consent-driven dataset to measure algorithmic bias and robustness

CANER HAZIRBAS, **YEJIN BANG** TIEZHENG YU, PARISA ASSAR, BILAL PORALI, VÍTOR ALBIERO, STEFAN HERMANEK, JACQUELINE PAN, EMILY MCREYNOLDS, MIRANDA BOGEN, PASCALE FUNG., CRISTIAN CANTON FERRER [Preprint. Arxiv 2022](#)

Assessing Political Prudence of Open-domain Chatbots

YEJIN BANG, NAYEON LEE, ETSUKO ISHII, ANDREA MADOTTO, AND PASCALE FUNG.. [SIGDIAL 2021 \(Oral\)](#)

Towards Few-shot Fact-Checking via Perplexity

YEJIN BANG*, NAYEON LEE*, ANDREA MADOTTO, MADIAN KHABSA AND PASCALE FUNG.. [NAACL 2021](#)

Model Generalization on COVID-19 Fake News Detection

YEJIN BANG*, ETSUKO ISHII*, ZIWEI LI*, SAMUEL CAHYAWIJAYA, AND PASCALE FUNG.. [CONSTRAINT Workshop AAAI 2021](#)

XPersona: Evaluating Multilingual Personalized Chatbot

ZHAOJIANG LIN, ZIHAN LIU, GENTA INDRA WINATA, SAMUEL CAHYAWIJAYA*, ANDREA MADOTTO, **YEJIN BANG**, ETSUKO ISHII, AND PASCALE FUNG.. [NLP4ConvAI Workshop EMNLP 2021. \(Best Paper Nomination\)](#)

The Adapter-Bot: All-In-One Controllable Conversational Model

ANDREA MADOTTO, ZHAOJIANG LIN, **YEJIN BANG** AND PASCALE FUNG. [AAAI 2021 \(demo\)](#)

Understanding the Shades of Sexism in Popular TV Series

NAYEON LEE, **YEJIN BANG**, JAMIN SHIN AND PASCALE FUNG. [WiNLP Workshop ACL 2019](#)

Honors & Awards

2023	Top AI 100 Achievements & Top AI Contributor (2022-2023) , Bench Council, FICC 2023	<i>Sanya, China</i>
2023	Area Chair Award – Language Modeling and Analysis , AACL 2023	<i>Bali, Indonesia</i>
2021	Best Paper Nomination , NLP4ConvAI, EMNLP	<i>Dominican Republic</i>
2020	Grace Hopper Celebration (GHC) Student Scholarship , AnitaB.org	<i>Florida, U.S.A</i>
2019	4-year Postgraduate Studentship (2019-2023) , HKUST	<i>Hong Kong</i>
2018	Women Techmakers Scholarship , Google	<i>Singapore</i>
2018	Fund-Reaching Out Award Scholarship , HKSAR Government	<i>Hong Kong</i>
2015	University Admission Scholarship, 1-year full tuition , HKUST	<i>Hong Kong</i>

Other Experience

Reviewer

Served as reviewer for NLP conferences such as NAACL 2024, ACL 2023, EMNLP 2022, ACL Rolling Review, Workshop (EMNLP2022-NLP4PI) and Harvard Data Science Review.

Teaching Assistant, HKUST

Feb. 2020 - Jan. 2021

ELEC5540 High Tech Innovation and Entrepreneurship (Fall 2020) & ELEC 1010 Electronic and Information Technology (Spring 2020). Delivered tutorial sessions and graded assignments.

Project Manager, Women in Engineering and Science (WISE) Club, HKUST

Jun. 2018 - Aug. 2019

Organized monthly events & workshops, and study tours to encourage an inclusive and intellectually vibrant environment.

Engineering School Student Ambassador, HKUST

Sep. 2016 - Dec. 2017

Skills

Programming	Python*, C++, Java, HTML/CSS, JavaScript, SQL
Machine Learning	Pytorch, Tensorflow, Python (e.g. pandas, numpy, matplotlib, scikit-learn)
Languages	Korean, English