Nayeon Lee

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EDUCATION

Hong Kong University of Science and Technology

Hong Kong, HK

Supervised by Pascale Fung

Aug. 2017 - Present

- PhD Candidate in Electronic and Computer Engineering
- Bachelor of Engineering in Computer Science Engineering (Minor: Big Data Technology)

EXPERIENCE/SELECTED PROJECTS

Facebook AI

Sept 2019 – Jan 2020

Research Intern

Seattle. WA

• Worked with AI Integrity Team at Facebook on misinformation detection and fact-checking research.

- [Misinformation Detection]: Proposed a unified model that can address multiple types of misinformation rumour, fake news, news bias and click-bait
- [Fact-checking]: Explored a way of leveraging the power of the language-model as knowledge base in the fact-checking setup.

The Centre for Artificial Intelligence Research

Aug. 2017 – Present

Graduate Research Student

Hong Kong, HK

- I worked on various research problems for social good under supervision of Prof.Pascale Fung.
- [Fact-Checking]: Proposed a novel way of leveraging language model perplexity for the myth debunking. We focused on the COVID-19 myths to help address the increasing problem of COVID-19-related false information.
- [Gender Bias]: Proposed an approach to understand and measure social bias in chatbots by leveraging stereotype knowledge
- [Hyper-partisanship Detection]: Incorporated semi-supervised approach (pseudo-labelling) to deal with hyper-partisanship detection model.

Credit Suisse

June 2016 – Aug 2016

Software Engineering Intern

Hong Kong, HK

- Developed a REST API using FastAPI and PostgreSQL to store data from learning management systems
- Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data

Publications

- "Misinformation Has High Perplexity", **Nayeon Lee***, Yejin Bang*, Andrea Madotto, Pascale Fung, under-review at NAACL2021
- "On Unifying Misinformation Detection", **Nayeon Lee**, Belinda Z. Li, Sinong Wang, Pascale Fung, Hao Ma, Wen-tau Yih and Madian Khabsa, under-review at NAACL2021
- "Language Models as Fact Checkers?", **Nayeon Lee**, Belinda Z Li, Sinong Wang, Wen-tau Yih, Hao Ma, Madian Khabsa, ACL2020 FEVER
- "Hyperpartisan News Detection by de-noising weakly-labeled data", Nayeon Lee*, Zihan Liu*, Pascale Fung, NAACL2019 Semeval
- "Exploring social bias in chatbots using stereotype knowledge", Nayeon Lee, Andrea Madotto, Pascale Fung, ACL2019 WNLP
- "Understanding the Shades of Sexism in Popular TV Series", **Nayeon Lee**, Yejin Bang, Jamin Shin, Pascale Fung, ACL2019 WNLP
- "Improving Large-Scale Fact-Checking using Decomposable Attention Models and Lexical Tagging", Nayeon Lee*, Chien-Sheng Wu*, Pascale Fung, EMNLP2018 (short)
- "Emojive! Collecting Emotion Data from Speech and Facial Expression using Mobile Game App", Jiho Park, Nayeon Lee, Pascale Fung, Interspeech2017 (demo)

Honors & Awards

$ ext{4-year Postgraduate Studentship} \mid ext{HKUST}$	2017 – Present
Dean's List Award $HKUST$	2017
${\bf Women\ Techmakers\ Scholarship}\mid \textit{Google}$	2017
Google Anita Borg Birthday Celebration Prize $\mid HackUST$	2016
TECHNICAL SKILLS	

Languages: Python, Java, JavaScript, HTML/CSS

Frameworks: React, Node.js, Flask

Libraries: PyTorch, TensorFlow, pandas, NumPy, Matplotlib