



EUNJEONG HWANG

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Education

University of British Columbia

PhD, Computer Science

Sep. 2022 - Present

4.0/4.0

University of Massachusetts-Amherst

MS, Computer Science

Sep. 2019 - May. 2021

3.67/4.0

Kwangwoon University

BS, Computer Science

Mar. 2014 - Feb. 2018

3.82/4.5

Research Experience

University of British Columbia

Research Assistant, Advised by Vered Shwartz

Sep. 2022 - Present

Vancouver, BC

- Research about incorporating implicit contexts (e.g. facial expressions, demographics, cultural background, gestures, etc) into large language models.

Google DeepMind

Research Intern (Host: Yichao Zhou, Beliz Gunel)

Jan. 2024 - Jun. 2024

MTV, CA

- Research on incremental structured summaries and resolving knowledge conflicts.
- Wrote two papers (SUMIE: A Synthetic Benchmark for Incremental Entity Summarization & Enhancing Incremental Summarization with Structured Representations) during the internship.

MIT-IBM Research

Research Intern (Host: Veronika Thost, Dan Gutfreund)

Jul. 2023 - Nov.2023

Boston, MA

- Research on reasoning subjective opinions using graph structures.
- ‘A Graph per Persona: Reasoning about Subjective Natural Language Descriptions’ accepted at ACL-Findings 2024.

Allen Institute for AI (AI2)

Research Collaborator (Mentor: Bodhisattwa Prasad Majumder, Niket Tandon)

Apr. 2023 - Dec.2023

Remote

- Research on aligning language models to user opinions.
- ‘Aligning Language Models to User Opinions’ accepted at EMNLP-Findings 2023.

UMass Amherst-IBM

Graduate Student Researcher (Mentor: Veronika Thost, Tengfei Ma)

Feb. 2021 - Oct.2021

Remote

- Research on virtual node augmented graph neural networks (GNN) for link prediction tasks.
- ‘An Analysis of Virtual Nodes in Graph Neural Networks for Link Prediction (Extended Abstract)’ accepted as a spotlight at LoG 2022.

Information Extraction & Synthesis Lab (IESL), UMass Amherst

Graduate Student Researcher (Mentor: Jay-Yoon Lee, Michael Boratko)

Jan. 2020 - Aug.2021

Amherst, MA

- Research on box embeddings for relation extraction and question-answering tasks.
- ‘Event-Event Relation Extraction using Probabilistic Box Embedding’ accepted at ACL 2022.

Work Experience

Naver Corp.

Software Engineer in Knowledge Base team

Mar. 2021 - Jun. 2022

Seongnam, Korea

- Constructed a knowledge graph based on regional district information, such as restaurants, festivals, and exhibitions, and expanded search queries using neo4j along with developing a weather-related search system.

IBM

Application Developer

Jan. 2018 - Apr. 2019

Seoul, Korea

- Stock Market Predictions using AI, Shinhan Financial Group: Extracted financial text patterns using a rule-based Watson solution and constructed a financial keyword graph by extracting important phrases in retrieved news.
- Information System Audit, Standard Chartered Bank: Maintained and improved functionality of bank surveillance system and bank branch audit system.
- Learning Platform Development, Hanwha: Implemented basic functions on the learning platform, including search, paging, listing, and export, and participated in all phases of the project from requirement specifications to user acceptance testing with clients.

IBM

Application Developer Intern

Sep. 2017 - Dec. 2017

Seoul, Korea

- Designed database tables and developed the learning platform websites in accordance with user interface design.

Publications

- From Local Concepts to Universals: Evaluating the Multicultural Understanding of Vision-Language Models **EMNLP 2024**
Mehar Bhatia, Sahithya Ravi, Aditya Chinchure, **Eunjeong Hwang**, Vered Shwartz
- Enhancing Incremental Summarization with Structured Representations **EMNLP-Findings 2024**
EunJeong Hwang, Yichao Zhou, James Bradley Wendt, Beliz Gunel, Nguyen Vo, Jing Xie, Sandeep Tata
- SUMIE: A Synthetic Benchmark for Incremental Entity Summarization **Arxiv Preprint**
EunJeong Hwang*, Yichao Zhou*, Beliz Gunel, James Bradley Wendt, Sandeep Tata
- A Graph per Persona: Reasoning about Subjective Natural Language Descriptions **ACL-Findings 2024**
EunJeong Hwang, Vered Shwartz, Dan Gutfreund, Veronika Thost
- MemeCap: A Dataset for Captioning and Interpreting Memes **EMNLP 2023**
EunJeong Hwang, Vered Shwartz
- Aligning Language Models to User Opinions **EMNLP-Findings 2023**
EunJeong Hwang, Bodhisattwa Prasad Majumder, Niket Tandon
- Knowledge Graph Compression Enhances Diverse Commonsense Generation **EMNLP 2023**
EunJeong Hwang, Veronika Thost, Vered Shwartz, Tengfei Ma
- An Analysis of Virtual Nodes in Graph Neural Networks for Link Prediction (Extended Abstract) **LoG 2022 (Oral)**
EunJeong Hwang, Veronika Thost, Shib Sankar Dasgupta, Tengfei Ma
- Event-Event Relation Extraction using Probabilistic Box Embedding **ACL 2022**
EunJeong Hwang, Jay-yoon Lee, Tianyi Yang, Dhruvesh Patel, Dongxu Zhang, Andrew McCallum

Teaching Experience

- Guest lecture about Multimodal Commonsense in CPSC 532V (Prof. Vered Shwartz) **Feb. 2024**
 - Lectured about tasks requiring commonsense beyond textual modalities, recent vision-language models, and their future directions.
- Grader for CS685 Advanced Natural Language Processing (Prof. Brendan O'Connor) **Feb. 2021 - May. 2021**
 - Grade students' assignments, provide feedback, and help them out to solve confusion on class material.

Invited Talks

- Invited talk at Seoul National University (Host: Prof. Jay-yoon Lee) **Sep 9, 2024**
 - Talk about 'Can L(V)LMs reason on extra-linguistic contexts?'.
- Career Panel Discussion at UMass-Amherst (Host: Prof. Andrew McCallum at 696DS) **Apr. 26, 2024**
 - Discussion about the career choice between Industry and PhD program for Master's students.
- Invited talk at UT Austin (Host: Prof. Jessy Li at LIN 393) **Feb 8, 2024**
 - Talk about Aligning language models to user opinions.

Services

- Workshop Co-Organizer
 - 1st Personalization of Generative AI workshop (PERSONALIZE @ EACL 2024)
- Reviewer/Program Committee
 - 2024: ARR-ACL 2024, *SEM 2024, CIKM 2024, The First Workshop on Data Contamination (CONDA 2024), AAAI Workshop on Responsible Language Models (ReLM 2024)
- Departmental Service
 - UBC CS: Admission Committee Member for the CSE Ph.D. Program (2022)

Technical Skills

Programming: Python, Java
Packages: PyTorch