EunJeong Hwang

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Education

University of British Columbia **Sep. 2022 - Present**
PhD, Computer Science *4.0/4.0*

University of Massachusetts-Amherst **Sep. 2019 - May. 2021**
MS, Computer Science *3.67/4.0*

Kwangwoon University **Mar. 2014 - Feb. 2018**
BS, Computer Science *3.82/4.5*

Research Experience

University of British Columbia **Sep. 2022 - Present**
Research Assistant, Advised by Vered Shwartz *Vancouver, BC*

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

Google DeepMind **Jan. 2024 - Jun. 2024**
Research Intern (Host: Yichao Zhou, Beliz Gunel) *MTV, CA*

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

MIT-IBM Research **Jul. 2023 - Nov.2023**
Research Intern (Host: Veronika Thost, Dan Gutfreund) *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) **Apr. 2023 - Dec.2023**
Research Collaborator (Mentor: Bodhisattwa Prasad Majumder, Niket Tandon) *Remote*

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

UMass Amherst-IBM **Feb. 2021 - Oct.2021**
Graduate Student Researcher (Mentor: Veronika Thost, Tengfei Ma) *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 **Jan. 2020 - Aug.2021**
Graduate Student Researcher (Mentor: Jay-Yoon Lee, Michael Boratko) *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. **Mar. 2021 - Jun. 2022**
Software Engineer in Knowledge Base team *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 **Jan. 2018 - Apr. 2019**
Application Developer *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 **Sep. 2017 - Dec. 2017**
Application Developer Intern *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 **Arxiv Preprint**
Mehar Bhatia, Sahithya Ravi, Aditya Chinchure, **Eunjeong Hwang**, Vered Shwartz

Enhancing Incremental Summarization with Structured Representations **Arxiv Preprint**
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

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