

# JAEHUN JUNG

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## EDUCATION

**University of Washington**, Seattle, WA  
Ph.D in Computer Science and Engineering  
Advisor: Yejin Choi

Sep 2021 ~

**Seoul National University**, Seoul, Korea  
B.S. in Computer Science and Engineering  
Advisor: U Kang, Jinwook Seo  
Overall GPA: 4.24 / 4.3, Major: 4.21 / 4.3 (1st in College of Engineering)

Mar 2014 ~ Feb 2021

## RESEARCH INTERESTS

I am broadly interested in *how to train and evaluate a model with a model*. I am specifically excited about the following research directions:

- Data Synthesis / Data Selection with LMs
- Improving Reliability and Controllability of LLMs
- LLM-based Reasoning
- Behavioral Understanding of LLMs

## RESEARCH WORKS

Jaehun Jung, Ximing Lu, Liwei Jiang, Faeze Brahman, Peter West, Pang Wei Koh, Yejin Choi. **Information-Theoretic Distillation for Reference-less Summarization**. *Preprint, 2024*.

Jaehun Jung, Peter West, Liwei Jiang, Faeze Brahman, Ximing Lu, Jillian Fisher, Taylor Sorensen, Yejin Choi. **Impossible Distillation: from Low-Quality Model to High-Quality Dataset and Model for Summarization and Paraphrasing**. *In Proceedings of The 2024 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2024)*.

Jillian Fisher, Ximing Lu, Jaehun Jung, Liwei Jiang, Zaid Harchaoui, Yejin Choi. **JamDec: Unsupervised Authorship Obfuscation using Constrained Decoding over Small Language Models** *In Proceedings of The 2024 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2024, Oral)*.

Ximing Lu, Faeze Brahman, Peter West, Jaehun Jung, ..., Yejin Choi. **Inference-Time Policy Adapters (IPA): Tailoring Extreme-Scale LMs without Fine-tuning**. *In Proceedings of The 2023 Conference on Empirical Methods for Natural Language Processing (EMNLP 2023)*.

Skyler Hallinan, Faeze Brahman, Ximing Lu, Jaehun Jung, Sean Welleck, Yejin Choi. **STEER: Unified Style Transfer with Expert Reinforcement**. *In Findings of Association of Computational Linguistics: EMNLP 2023 (Findings of EMNLP 2023)*.

Guhyun Han, Jaehun Jung, YoungHo Kim, Jinwook Seo. **DataHalo: Customizable Visualization System to Embody Personal Design Perspectives of Ambience**. *In Proceedings of The 2023 CHI Conference on Human Factors in Computing Systems (CHI 2023)*.

Jaehun Jung, Lianhui Qin, Sean Welleck, Faeze Brahman, Chandra Bhagavatula, Ronan Le Bras, Yejin Choi. **Maieutic Prompting: Logically Consistent Reasoning with Recursive Explanations**. *In Proceedings of The 2022 Conference on Empirical Methods for Natural Language Processing (EMNLP 2022, Oral)*.

Jaehun Jung, Jinhong Jung, U Kang. **T-GAP: Learning to Walk across Time for Temporal Knowledge Graph Completion**. *In Proceedings of The 27th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2021)*.

Jaehun Jung, Bokyoung Son\*, Sungwon Lyu\*. **AttnIO: Knowledge Graph Exploration with In-and-Out Attention Flow for Knowledge-Grounded Dialogue**. *In Proceedings of The 2020 Conference on Empirical Methods for Natural Language Processing (EMNLP 2020)*.

<b>ACADEMIC EXPERIENCE</b>	<b>Data Mining Lab</b> , Seoul National University Undergraduate Research Program (URP) Advisor: Prof. U Kang Proposed a novel temporal reasoning model based on attention propagation and GNN, achieving state-of-the-art results in temporal knowledge graph completion benchmarks.	Mar 2020 ~ Jun 2020
	<b>Human-Computer Interaction Lab</b> , Seoul National University Research Intern Advisor: Prof. Jinwook Seo Designed, and implemented user-context aware notification system that outputs personalized summary of smartphone notifications.	Mar 2018 ~ Dec 2019
<b>INDUSTRIAL EXPERIENCE</b>	<b>Allen Institute of AI</b> , Seattle, Washington External Collaborator Conducted collaborative research with Mosaic Team on commonsense reasoning and language models.	Sep 2021 ~ Present
	<b>Kakao Enterprise</b> , Seoul, Korea NLP Researcher Developed / Deployed a fast language detection model for Neural Machine Translation. Research on domain-specific NMT for patent documents.	Apr 2020 ~ Jul 2021
	<b>Kakao AI Lab</b> , Seoul, Korea Research Intern Proposed a new approach to knowledge graph exploration for a knowledge-grounded dialogue system.	Jan 2020 ~ Mar 2020
	<b>SNULife</b> , Seoul National University CTO Developed new services and led maintenance for SNULife.com, an online student community with 170k+ users.	May 2018 ~ Mar 2019
	<b>Police Tactical Unit</b> , Daegu Metropolitan Police Agency Auxiliary Police, HR Department (Mandatory Military Service) Developed Human Resource DBMS, currently deployed to nationwide police agencies.	Mar 2015 ~ Feb 2017
<b>SCHOLARSHIPS</b>	<b>Outstanding Thesis Award</b> , Seoul National University	2021
	<b>National Scholarship for Science and Engineering</b> Merit-based full stipend scholarship by KOSAF ( <i>Korean Student Aid Foundation</i> )	2018 ~ 2020
	<b>Academic Excellence Scholarship</b> , Seoul National University Merit-based undergraduate scholarship.	2014, 2015, 2017