

JAEHUN JUNG

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CURRENT AFFILIATIONS	University of Washington, Seattle, WA Ph.D in Computer Science and Engineering Advisor: Yejin Choi	Sep 2021 ~ Present
	Nvidia Research, Seattle, Washington Student Researcher Data synthesis and quality estimation for pre-/post-training frontier language models.	Sep 2024 ~ Present
RESEARCH INTERESTS	I am broadly interested in <i>how to train and evaluate a model with a model</i> . I often think about: - Data Synthesis / Selection with LMs : How do we define good data? Can we use the insight to generate synthetic data that are diverse, correct, and are helpful to model generalization? - Science of (Automated) Evals : Can we use a model to reliably evaluate other models? How can we guarantee the automated rubrics will align with ours?	
RESEARCH WORKS	<u>Jaehun Jung</u> , Seungju Han*, Ximing Lu*, Skyler Hallinan*, Shrimai Prabhumoye, Niklas Muennighoff, Mostafa Patwary, Mohammad Shoeybi, Bryan Catanzaro, Yejin Choi. Prismatic Synthesis & G-Vendi Score: How Data Diversification makes R1-32B a Better Teacher than R1-671B . <i>Blog, 2025</i> .	
	Ximing Lu*, Seungju Han*, David Acuna Marrerro*, Hyunwoo Kim*, <u>Jaehun Jung</u> *, Shrimai Prabhumoye, Niklas Muennighoff, Mostafa Patwary, Mohammad Shoeybi, Bryan Catanzaro, Yejin Choi. Retro-Search: Exploring Untaken Paths for Deeper and Efficient Reasoning . <i>Preprint, 2025</i> .	
	<u>Jaehun Jung</u> , Faeze Brahman, Yejin Choi. Trust or Escalate: LLM Judges with Provable Guarantees for Human Agreement . <i>In Proceedings of International Conference on Learning Representations (ICLR 2025, Oral)</i> .	
	<u>Jaehun Jung</u> , Ximing Lu, Liwei Jiang, Faeze Brahman, Peter West, Pang Wei Koh, Yejin Choi. Information-Theoretic Distillation for Reference-less Summarization . <i>In Proceedings of Conference on Language Modeling (COLM 2024)</i> .	
	<u>Jaehun Jung</u> , 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 . <i>In Proceedings of The 2024 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2024)</i> .	
	Jillian Fisher, Ximing Lu, <u>Jaehun Jung</u> , Liwei Jiang, Zaid Harchaoui, Yejin Choi. JamDec: Unsupervised Authorship Obfuscation using Constrained Decoding over Small Language Models <i>In Proceedings of The 2024 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2024, Oral)</i> .	
	Ximing Lu, Faeze Brahman, Peter West, <u>Jaehun Jung</u> , ..., Yejin Choi. Inference-Time Policy Adapters (IPA): Tailoring Extreme-Scale LMs without Fine-tuning . <i>In Proceedings of The 2023 Conference on Empirical Methods for Natural Language Processing (EMNLP 2023)</i> .	
	Skyler Hallinan, Faeze Brahman, Ximing Lu, <u>Jaehun Jung</u> , Sean Welleck, Yejin Choi. STEER: Unified Style Transfer with Expert Reinforcement . <i>In Findings of Association of Computational Linguistics: EMNLP 2023 (Findings of EMNLP 2023)</i> .	
	Guhyun Han, <u>Jaehun Jung</u> , YoungHo Kim, Jinwook Seo. DataHalo: Customizable Visualization System to Embody Personal Design Perspectives of Ambience . <i>In Proceedings of The 2023 CHI Conference on Human Factors in Computing Systems (CHI 2023)</i> .	

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, Bokyung 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)*.

EDUCATION	Seoul National University , Seoul, Korea B.S. in Computer Science and Engineering Advisor: U Kang, Jinwook Seo <i>Graduated with Presidential Award (1st in School of Engineering)</i>	Mar 2014 ~ Feb 2021
PREVIOUS AFFILIATIONS	Allen Institute of AI , Seattle, Washington External Collaborator Research with Mosaic Team on commonsense reasoning and distillation	Sep 2021 ~ Sep 2024
	Kakao Enterprise , Seoul, Korea NLP Researcher Trained a fast language detection model for Neural Machine Translation. Research on domain-specific NMT for patent documents.	Apr 2020 ~ Jul 2021
	Kakao AI Lab , Seoul, Korea Research Intern Proposed a new approach to knowledge graph exploration for a knowledge-grounded dialogue system.	Jan 2020 ~ Mar 2020
	Data Mining Lab , Seoul National University Undergraduate Research Program (URP) Advisor: Prof. U Kang Proposed a 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
	Human-Computer Interaction Lab , Seoul National University Research Intern Advisor: Prof. Jinwook Seo Designed user-context aware notification system that outputs personalized summary of smartphone notifications.	Mar 2018 ~ Dec 2019
	SNULife , Seoul National University CTO Developed new services and led maintenance for SNULife.com, an online student community with 170k+ users.	May 2018 ~ Mar 2019
SCHOLARSHIPS	Police Tactical Unit , 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
	Outstanding Thesis Award , Seoul National University	2021
	National Scholarship for Science and Engineering Merit-based full stipend scholarship by KOSAF (<i>Korean Student Aid Foundation</i>)	2018 ~ 2020
	Academic Excellence Scholarship , Seoul National University Merit-based undergraduate scholarship.	2014, 2015, 2017