

Dongyeop Kang (DK)

412-736-4873 ◇ dongyeop@umn.edu ◇ dykang.github.io

411 Shepherd, 200 Union Street SE, Minneapolis, MN, 55455

Last updated on November 10, 2025

PROFESSIONAL EMPLOYMENT HISTORY

Assistant Professor University of Minnesota, Twin Cities, MN	2021 – present
Postdoctoral Scholar University of California, Berkeley, CA (<i>PI: Marti A. Hearst</i>)	2020 – 2021
Research Assistant Carnegie Mellon University (<i>PI: Eduard Hovy</i>)	2015 – 2020
Research Intern Facebook AI Research, Menlo Park, CA (<i>Mentors: Jason Weston</i>)	2018 Summer
Research Intern Allen Institute for Artificial Intelligence (AI2), Seattle, WA (<i>Mentors: Tushar Khot</i>)	2017 Summer
Research Intern Microsoft Research, Redmond, WA (<i>Mentors: Michael Gamon, Patrick Pantel</i>)	2016 Summer
Researcher Naver Labs and KAIST Institute, Korea (<i>Alternative Military Service</i>)	2012 – 2015

EDUCATION

Carnegie Mellon University	2020
Ph.D., Language Technology Institute, School of Computer Science	
Thesis: <i>Linguistically Informed Language Generation: A Multifaceted Approach</i>	
Advisor: Eduard Hovy (Committee: Jeffrey Bigham, Alan W Black, Jason Weston, Dan Jurafsky)	
Korea Advanced Institute of Science and Technology (KAIST)	2010
B.S. and M.S., Computer Science Engineering	

HONORS AND AWARDS

Google Research Gift Award	2025
Honorable Mention – VISxGenAI Workshop at IEEE VIS	2025
NSF NAIRR Pilot Award – National Science Foundation	2024
Best Student Paper Award Nomination – Interspeech	2024
Open Philanthropy Gift Award	2024
Grammarly Research Gift Award	2022-2024
3M Non-tenured Faculty Award (NTFA)	2022-2024
Cisco Research Award	2023
Best Paper Award – In2Writing Workshop at ACL	2022
Faculty Innovation Award – Sony Research	2022
Top Reviewer Recognition – NeurIPS and ACL	2018
Research Fellowship – Allen Institute for AI (AI2)	2018
Presidential Fellowship – CMU	2016
Startup Investment Prize – SMBA	2013

Ph.D. Scholarship – ILJU Foundation	2011
Excellent Performance Award – Microsoft Research Asia	2010
Summa Cum Laude – KAIST	2007

GRANTS AND RESEARCH GIFTS

Cognitive Foundation Models for Understanding User Cognitive States	2025
Google Research Gift	
PI	
Total Funds: \$200,000	

Interpreting Legal Reasoning Patterns in LLMs	2025
Thomson Reuters Research Gift	
PI	
Total Funds: \$90,000	

Scalable Reasoning and Efficient Model Adaptation	2025
Naver Corporation Research Gift	
PI	
Total Funds: \$125,000	

Personalized Phygital Brand Avatars for Small Businesses	2025
Digital Design Center (DDC) Computational Creativity Grant	
PI (with Hyunjoo Im)	
Total Funds: \$35,000	

Safe Path Planning for Autonomous Delivery Drones in Turbulent Urban Environments	2025
UMN MnRI Seed Grant	
Co-PI (with Jiarong Hong, Changhyn Choi, Jianxun Wang)	
Total Funds: \$50,000	

Scientific Foundational Model for Supporting Trustworthy Scholarly Writing	2025
NSF NAIRR Pilot	
PI	
Total Funds: NVIDIA DGX Cloud 280,000 GPU Hours	

Improving Writing Assistants with Long-Term Coherence Modeling	2024
Grammarly Research Gift	
PI	
Total Funds: \$150,000	

Towards Expert Alignment: Collecting Legal Processing Benchmark from Lawyers	2024
Open Philanthropy — Lawyer Benchmark Collection	
PI (with Daniel Schwarcz, Brett McDonnell)	
Total Funds: \$74,132	

Aligning AI Models with Human Values: Formulation, Algorithms and Applications	2024
UMN Data Science Institute (DSI) Small Seed Grant	
PI (with Mingyi Hong)	
Total Funds: \$15,000	

[Human-centric Natural Language Processing](#)

2022 – 2024

3M NTFA Gift Awards

PI

Total Funds: \$4,500

[AI Assistant for Non-English Speaking Clinical Trial Participants](#)

2023

UMN Clinical and Translational Science Institute (CTSI)

PI (with Jennifer Needle, Gwennyth Fischer)

Total Funds: \$50,000

[Computing Grants for Research](#)

2023

OpenAI, Cohere AI, Google Cloud, Oracle Cloud, Amazon Web Services

PI

OpenAI: \$25,000, Cohere AI: \$5,000, Google Cloud: \$6,000, Oracle Cloud: \$1,000, AWS: \$5,000

[Active Instruction Tuning for Efficient and Collaborative Task Annotation](#)

2023

Cisco Research

PI

Total Funds: \$175,000

[Writing Assistant for Professionals Using NLP + HCI Approaches](#)

2023

Accenture Labs Gift

PI

Total Funds: \$85,000

[Collecting Human Explanations: Cognitively-inspired NLP Systems](#)

2023

UMN Early Innovation Fund

PI

Total Funds: \$10,431

[MnRI Seed Grant Project](#)

2023

UMN MnRI Seed Grant

Co-PI (with Karthik Desingh)

Total Funds: \$40,000

[Improving Writing Assistants with Planning and Iterative Revision](#)

2022

Grammarly Research Gift

PI

Total Funds: \$140,000

[Goal-Oriented Decoding Control in Language Generation](#)

2022

Sony Research

PI

Total Funds: \$100,000

[Setup Grant for Research Activities](#)

2021

University of Minnesota

SERVICE AND PUBLIC OUTREACH

Program Chairs and Organizers

Co-organizer – AI for Future of Work (AIFoW) Workshop at CHI (under review)	2026
Co-organizer – Pluralistic Alignment Workshop at NeurIPS	2024
Area Chair – AAAI, EMNLP, ACL	2023-Present
Steering Committee – CustomNLP4U Workshop at EMNLP	2024
Advisory Board – Intelligent and Interactive Writing (In2Writing) Workshop at CHI	2024
Co-organizer – Intelligent and Interactive Writing (In2Writing) Workshop at CHI	2023
Co-organizer – Intelligent and Interactive Writing (In2Writing) Workshop at ACL	2022
Co-organizer – Minnesota NLP Seminar	2021-2022
Co-organizer – Controllable Generative Modeling CtrlGen Workshop at NeurIPS	2021

Program Committees (Conferences)

Conference on Human Factors in Computing Systems – CHI	2024-Present
Review Committee Member – ACL Rolling Review	2021-Present
Association for Computational Linguistics – ACL	2018-Present
Annual Conference of the NAACL – NAACL	2019, 2022
Conference on Empirical Methods in Natural Language Processing – EMNLP	2018-Present
Conference on Neural Information Processing Systems – NeurIPS	2018-Present
International Conference on Learning Representations – ICLR	2019-Present
International Conference on Machine Learning – ICML	2019

Program Committees (Workshops and Journals)

Machine Reading for Question Answering Workshop – MRQA	2018
Workshop on Noisy User-generated Text – WNUT	2019
International Journal for Quantitative Aspects of Science of Science, Communication in Science and Science Policy – Scientometrics	2019

Department and University Service

Curriculum Committee – University of Minnesota	2023-2024
Faculty Recruiting Committee (Robotics/AI, HCC, ML areas) – University of Minnesota	2023-Present
Faculty Advisor, Undergraduate AI Club – University of Minnesota	2024-Present
Admissions Committee – University of Minnesota	2021-2023

PUBLICATIONS

Dissertations

- D1 [Linguistically Informed Language Generation: A Multifaceted Approach](#)
 Dongyeop Kang
PhD dissertation, Carnegie Mellon University 2020

Selected Publications

Refereed Conference Proceedings

- C62 [Align to Structure: Aligning Large Language Models with Structural Information](#)
 Zae Myung Kim, Anand Ramachandran, Farideh Tavazoei, Joo-Kyung Kim, Oleg Rokhlenko, and Dongyeop Kang
Thirty-Eighth AAAI Conference on Artificial Intelligence (AAAI) 2026
- C61 [Breaking Determinism: Stochastic Modeling for Reliable Off-Policy Evaluation in Ad Auctions](#)
 Hongseon Yeom, Jaeyoul Shin, Soojin Min, Jeongmin Yoon, Seunghak Yu, and Dongyeop Kang
Proceedings of International Conference on Web Search and Data Mining (WSDM) 2025
Oral
-
- C60 [How human is AI? A comparison of temporal meanings in 8 LLMs and 3 populations](#)
 Andreas Schramm, Karin de Langis, Jong Inn Park, Anh Thu Tong, Michael Mensink, Bin Hu, Khanh Chi Le, and Dongyeop Kang
Proceedings of American Association of Applied Linguistics (AAAL) 2025
- C59 [BBScoreV2: Learning Time-Evolution and Latent Alignment from Stochastic Representation](#)
 Tianhao Zhang, Zhecheng Sheng, Zhexiong Lin, Chen Jiang, and Dongyeop Kang
Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP) 2025
- C58 [LawFlow : Collecting and Simulating Lawyers' Thought Processes](#)
 Debarati Das, Khanh Chi Le, Ritik Sachin Parkar, Karin De Langis, Brendan Madson, Chad M. Berryman, Robin M Willis, Daniel H Moses, Brett McDonnell, Daniel Schwarcz, and Dongyeop Kang
Conference on Language Modeling (COLM) 2025
- C57 [FlowForge: Guiding the Creation of Multi-agent Workflows with Interactive Visualizations as a Thinking Scaffold](#)
 Pan Hao, Dongyeop Kang, Nicholas Hinds, and Qianwen Wang
IEEE Transactions on Visualization and Computer Graphics (IEEE VIS) 2025
- C56 [How LLMs Comprehend Temporal Structure in Narratives: A Case Study in Cognitive Evaluation of LLMs](#)
 Karin de Langis, Jong Inn Park, Andreas Schramm, Bin Hu, Khanh Chi Le, and Dongyeop Kang
Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL) 2025
- C55 [RoSTE: An Efficient Quantization-Aware Supervised Fine-Tuning Approach for Large Language Models](#)
 Quan Wei, Chung-Yiu Yau, Hoi To Wai, Yang Zhao, Dongyeop Kang, Youngsuk Park, and Mingyi Hong
International Conference on Machine Learning (ICML) 2025
- C54 [Joint Reward and Policy Learning with Demonstrations and Human Feedback Improves Alignment](#)
 Chenliang Li, Siliang Zeng, Zeyi Liao, Jiaxiang Li, Dongyeop Kang, Alfredo Garcia, and Mingyi Hong
International Conference on Learning Representations (ICLR) 2025
Spotlight (Top 5%)
- C53 [ISR-DPO: Aligning Large Multimodal Models for Videos by Iterative Self-Retrospective DPO](#)
 Daechul Ahn, Yura Choi, San Kim, Youngjae Yu, Dongyeop Kang, and Jonghyun Choi
Thirty-Eighth AAAI Conference on Artificial Intelligence (AAAI) 2025
- C52 [Chain-of-Instructions: Compositional Instruction Tuning on Large Language Models](#)
 Shirley Anugrah Hayati, Taehee Jung, Tristan Bodding-Long, Sudipta Kar, Abhinav Sethy, Joo-Kyung Kim, and Dongyeop Kang
Thirty-Eighth AAAI Conference on Artificial Intelligence (AAAI) 2025

-
- C51 [How Far Can We Extract Diverse Perspectives from Large Language Models?](#)
 Shirley Anugrah Hayati, Minhwa Lee, Dheeraj Rajagopal, and Dongyeop Kang
Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP) 2024
- C50 [Dynamic Multi-Reward Weighting for Multi-Style Controllable Generation](#)
 Karin de Langis, Ryan Koo, and Dongyeop Kang
Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP) 2024
- C49 [LearnerVoice: A Dataset of Non-Native English Learners' Spontaneous Speech](#)
 Haechan Kim, Junho Myung, Seoyoung Kim, Sungpah Lee, Dongyeop Kang, and Juho Kim
Conference of the International Speech Communication Association (Interspeech) 2024
Best Student Paper Nomination
- C48 [Talk Through It: End User Directed Manipulation Learning](#)
 Carl Winge, Adam Imdieke, Bahaa Aldeeb, Dongyeop Kang, and Karthik Desingh
IEEE Robotics and Automation Letters (RA-L) 2024
- C47 [Threads of Subtlety: Detecting Machine-Generated Texts Through Discourse Motifs](#)
 Zae Myung Kim, Kwang Hee Lee, Preston Zhu, Vipul Raheja, and Dongyeop Kang
Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL) 2024
- C46 [Tuning Large Multimodal Models for Videos using Reinforcement Learning from AI Feedback](#)
 Daechul Ahn, Yura Choi, Youngjae Yu, Dongyeop Kang, and Jonghyun Choi
Annual Meeting of the Association for Computational Linguistics (ACL) 2024
Oral
- C45 [II-MMR: Identifying and Improving Multi-modal Multi-hop Reasoning in Visual Question Answering](#)
 Jihyung Kil, Farideh Tavazoei, Dongyeop Kang, and Joo-Kyung Kim
Annual Meeting of the Association for Computational Linguistics (ACL) Findings 2024
- C44 [Benchmarking Cognitive Biases in Large Language Models as Evaluators](#)
 Ryan Koo, Minhwa Lee, Vipul Raheja, Jong Inn Park, Zae Myung Kim, and Dongyeop Kang
Annual Meeting of the Association for Computational Linguistics (ACL) Findings 2024
- C43 [Consumer Engagement With AI-Powered Search Engines and Implications for the Future of Search Advertising](#)
 Gabriel Garlough-Shah, Jong Inn Park, Shirley Anugrah Hayati, Dongyeop Kang, and Jisu Huh
Association for Education in Journalism and Mass Communication (AEJMC) 2024
- C42 [Which Modality should I use - Text, Motif, or Image? : Understanding Graphs with Large Language Models](#)
 Debarati Das, Ishaan Gupta, Jaideep Srivastava, and Dongyeop Kang
Findings of the Association for Computational Linguistics: NAACL 2024 2024
- C41 [SkOTaPA: A Dataset for Skepticism Detection in Online Text after Persuasion Attempt](#)
 Smitha Muthya Sudheendra, Maral Abdollahi, Dongyeop Kang, Jisu Huh, and Jaideep Srivastava
Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024) 2024
- C40 [BBScore: A Brownian Bridge Based Metric for Assessing Text Coherence](#)
 Zhecheng Sheng, Tianhao Zhang, Chen Jiang, and Dongyeop Kang
Thirty-Eighth AAAI Conference on Artificial Intelligence (AAAI) 2024
- C39 [Meta-Crafting: Improved Detection of Out-of-Distributed Texts via Crafting Metadata Space \(Student Abstract\)](#)

Ryan Koo, Yekyung Kim, Dongyeop Kang, and Jaehyung Kim
Thirty-Eighth AAAI Conference on Artificial Intelligence (AAAI) Student Abstract 2024

- C38 [Dialogue Chain-of-Thought Distillation for Commonsense-aware Conversational Agents](#)
 Hyungjoo Chae, Yongho Song, Kai Tzu-iunn Ong, Taeyoon Kwon, Minjin Kim, Youngjae Yu, Dongha Lee, Dongyeop Kang, and Jinyoung Yeo
The 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP) 2023
- C37 [CoEdIt: State-of-the-art Text Editing by Task-Specific Instruction Tuning](#)
 Vipul Raheja, Dhruv Kumar, Ryan Koo, and Dongyeop Kang
The 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP Findings) 2023
 Media Coverage ([MarTechPost](#)) [10K+ download in HuggingFace as of 2024 May](#)
- C36 [A Comparative Study on Textual Saliency of Styles from Eye Tracking, Annotations, and Language Models](#)
 Karin de Langis and Dongyeop Kang
Proceedings of the 27th Conference on Computational Natural Language Learning (CoNLL) 2023
- C35 [Quirk or Palmer: A Comparative Study of Modal Verb Frameworks with Annotated Datasets](#)
 Risako Owan, Maria Gini, and Dongyeop Kang
Proceedings of the 27th Conference on Computational Natural Language Learning (CoNLL) 2023
- C34 [Story Visualization by Online Text Augmentation with Context Memory](#)
 Daechul Ahn, Daneul Kim, Gwangmo Song, Seung Hwan Kim, Honglak Lee, Dongyeop Kang, and Jonghyun Choi
2023 IEEE/CVF International Conference on Computer Vision (ICCV) 2023
- C33 [Rebuilding Social Connection and Enhancing Advertising Effects Through the Nostalgic Appeal during the Pandemic](#)
 Katie Kim, Bugil Chang, Debarati Das, Smitha Sudheendra, Jisu Huh, Dongyeop Kang, and Jaideep Srivastava
Association for Education in Journalism and Mass Communication (AEJMC) 2023
- C32 [infoVerse: A Universal Framework for Dataset Characterization with Multidimensional Meta-information](#)
 Jaehyung Kim, Yekyung Kim, Karin de Langis, and Dongyeop Kang
Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL) 2023
- C31 [Rethinking Annotation: Can Language Learners Contribute?](#)
 Haneul Yoo, Rifki Afina Putri, Changyoon Lee, Youngin Lee, So-Yeon Ahn, Dongyeop Kang, and Alice Oh
2023
- C30 [Balancing Effect of Training Dataset Distribution of Multiple Styles for Multi-Style Text Transfer](#)
 Debarati Das, David Ma, and Dongyeop Kang
Findings of the Annual Meeting of the Association for Computational Linguistics (ACL) Findings 2023
- C29 [Prefer to Classify: Improving Text Classifiers via Auxiliary Preference Learning](#)
 Jaehyung Kim, Shin Jinwoo, and Dongyeop Kang
International Conference on Machine Learning (ICML) 2023
- C28 [Cluster-guided label generation in extreme multi-label classification](#)
 Taehee Jung, Joo-Kyung Kim, Sungjin Lee, and Dongyeop Kang
European Chapter of Association for Computational Linguistics (EACL) 2023
- C27 [StyLEx: Explaining Styles with Lexicon-Based Human Perception](#)
 Shirley Anugrah Hayati, Kyumin Park, Dheeraj Rajagopal, Lyle Ungar, and Dongyeop Kang
European Chapter of Association for Computational Linguistics (EACL) 2023

- C26 [Everyone's Voice Matters: Quantifying and Distinguishing Subjective Annotation Disagreement Using Demographic Information](#)
 Ruyuan Wan, Jaehyung Kim, and Dongyeop Kang
Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI) 2023
 Oral
- C25 [The Semantic Reader Project: Augmenting Scholarly Documents through AI-Powered Interactive Reading Interfaces](#)
 Kyle Lo, Joseph Chee Chang, Andrew Head, Jonathan Bragg, Amy X. Zhang, Cassidy Trier, Chloe Anastasiades, Tal August, Russell Authur, Danielle Bragg, Erin Bransom, Isabel Cachola, Stefan Candra, Yoganand Chandrasekhar, Yen-Sung Chen, Evie Yu-Yen Cheng, Yvonne Chou, Doug Downey, Rob Evans, Raymond Fok, Fangzhou Hu, Regan Huff, Dongyeop Kang, Tae Soo Kim, Rodney Kinney, Aniket Kittur, Hyeonsu Kang, Egor Klevak, Bailey Kuehl, Michael Langan, Matt Latzke, Jaron Lochner, Kelsey MacMillan, Eric Marsh, Tyler Murray, Aakanksha Naik, Ngoc-Uyen Nguyen, Srishti Palani, Soya Park, Caroline Paulic, Napol Rachatasumrit, Smita Rao, Paul Sayre, Zejiang Shen, Pao Siangliulue, Luca Soldaini, Huy Tran, Madeleine van Zuylen, Lucy Lu Wang, Christopher Wilhelm, Caroline Wu, Jiangjiang Yang, Angele Zamarron, Marti A. Hearst, and Daniel S. Weld
Communications of ACM 2023
-
- C24 [Improving Iterative Text Revision by Learning Where to Edit from Other Revision Tasks](#)
 Zae Myung Kim, Wanyu Du, Vipul Raheja, Dhruv Kumar, and Dongyeop Kang
Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP) 2022
- C23 [Understanding Iterative Revision from Human-Written Text](#)
 Wanyu Du, Vipul Raheja, Dhruv Kumar, Zae Myung Kim, Melissa Lopez, and Dongyeop Kang
Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers) 2022
- C22 [What Makes Better Augmentation Strategies? Augment Difficult but Not too Different](#)
 Jaehyung Kim, Dongyeop Kang, Sungsoo Ahn, and Jinwoo Shin
International Conference on Learning Representations (ICLR) 2022
-
- C21 [Does BERT Learn as Humans Perceive? Understanding Linguistic Styles through Lexica](#)
 Shirley Anugrah Hayati, Dongyeop Kang, and Lyle Ungar
Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing (EMNLP) 2021
- C20 [Modeling Mathematical Notation Semantics in Academic Papers](#)
 Hwiyeol Jo, Dongyeop Kang, Andrew Head, and Marti A. Hearst
Findings on Empirical Methods in Natural Language Processing (EMNLP Findings) 2021
- C19 [Zero-shot Natural Language Video Localization](#)
 Jinwoo Nam, Daechul Ahn, Dongyeop Kang, Seong Jong Ha, and Jonghyun Choi
 2021 IEEE/CVF International Conference on Computer Vision (ICCV) 2021
 Oral (Top 3%)
- C18 [Style is NOT a single variable: Case Studies for Cross-Stylistic Language Understanding](#)
 Dongyeop Kang and Eduard Hovy
Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (Volume 1: Long Papers) 2021
 Oral

- C17 [Augmenting Scientific Papers with Just-in-Time, Position-Sensitive Definitions of Terms and Symbols](#)
 Andrew Head, Kyle Lo, Dongyeop Kang, Raymond Fok, Sam Skjonsberg, Daniel S. Weld, and Marti A. Hearst
Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI) 2021
-
- C16 [Plan ahead: Self-Supervised Text Planning for Paragraph Completion](#)
 Dongyeop Kang and Eduard Hovy
Conference on Empirical Methods in Natural Language Processing (EMNLP) 2020
 Oral
- C15 [INSPIRED: Toward Sociable Recommendation Dialog Systems](#)
 Shirley A. Hayati, Dongyeop Kang, Qingxiaoyang Zhu, Weiyan Shi, and Zhou Yu
Conference on Empirical Methods in Natural Language Processing (EMNLP) 2020
- C14 [Posterior Calibrated Training on Sentence Classification Tasks](#)
 Taehee Jung, Dongyeop Kang, Hua Cheng, Lucas Mentch, and Thomas Schaaf
2020 Annual Conference of the Association for Computational Linguistics (ACL) 2020
- C13 [Earlier Isn't Always Better: Sub-aspect Analysis on Corpus and System Biases in Summarization](#)
 Dongyeop Kang*, Taehee Jung*, Lucas Mentch, and Eduard Hovy
Conference on Empirical Methods in Natural Language Processing (EMNLP) 2019
- C12 [Recommendation as a Communication Game: Self-Supervised Bot-Play for Goal-oriented Dialogue](#)
 Dongyeop Kang, Anusha Balakrishnan, Pararth Shah, Paul Crook, Y-Lan Boureau, and Jason Weston
Conference on Empirical Methods in Natural Language Processing (EMNLP) 2019
- C11 [\(Male, Bachelor\) and \(Female, Ph.D\) have different connotations: Parallely Annotated Stylistic Language Dataset with Multiple Personas](#)
 Dongyeop Kang, Varun Gangal, and Eduard Hovy
Conference on Empirical Methods in Natural Language Processing (EMNLP) 2019
 Oral
- C10 [Linguistic Versus Latent Relations for Modeling Coherent Flow in Paragraphs](#)
 Dongyeop Kang, Hiroaki Hayashi, Alan W Black, and Eduard Hovy
Conference on Empirical Methods in Natural Language Processing (EMNLP) 2019
- C9 [Bridging Knowledge Gaps in Neural Entailment via Symbolic Models](#)
 Dongyeop Kang, Tushar Khot, Ashish Sabharwal, and Peter Clark
Conference on Empirical Methods in Natural Language Processing (EMNLP) 2018
- C8 [AdvEntuRe: Adversarial Training for Textual Entailment with Knowledge-Guided Examples](#)
 Dongyeop Kang, Tushar Khot, Ashish Sabharwal, and Eduard Hovy
The 56th Annual Meeting of the Association for Computational Linguistics (ACL) 2018
- C7 [A Dataset of Peer Reviews \(PeerRead\): Collection, Insights and NLP Applications](#)
 Dongyeop Kang, Waleed Ammar, Bhavana Dalvi, Madeleine van Zuylen, Sebastian Kohlmeier, Eduard Hovy, and Roy Schwartz
Meeting of the North American Chapter of the Association for Computational Linguistics (NAACL) 2018
- C6 [Actionable email intent modeling with reparametrized RNN](#)
 Chu-Cheng Lin, Dongyeop Kang, Michael Gamon, Madian Khabisa, Ahmed Hassan Awadallah, and Patrick Pantel
Association for the Advancement of Artificial Intelligence (AAAI) 2018

- C5 [Detecting and Explaining Causes From Text For a Time Series Event](#)
Dongyeop Kang, Varun Gangal, Ang Lu, Zheng Chen, and Eduard Hovy
Conference on Empirical Methods on Natural Language Processing (EMNLP) 2017
-
- C4 [Eventera: Real-time Event Recommendation System from Massive Heterogeneous Online Media](#)
Dongyeop Kang, DongGyun Han, NaHea Park, Sangtae Kim, U Kang, and Soobin Lee
IEEE International Conference on Data Mining (ICDM) 2014
- C3 [Data/Feature Distributed Stochastic Coordinate Descent for Logistic Regression](#)
Dongyeop Kang, Woosang Lim, Kijung Shin, Lee Sael, and U. Kang
Proceedings of the 23rd ACM International Conference on Conference on Information and Knowledge Management 2014
- C2 [Hetero-Labeled LDA: A Partially Supervised Topic Model with Heterogeneous Labels](#)
Dongyeop Kang, Youngja Park, and Suresh Chari
ECML/PKDD 2014
- C1 [Multidimensional mining of large-scale search logs: a topic-concept cube approach](#)
Dongyeop Kang, Daxin Jiang, Jian Pei, Zhen Liao, Xiaohui Sun, and Ho-Jin Choi
Web Search and Data Mining 2011

Refereed Workshop, Posters, Extended Abstracts, and Demos

- W13 [Joint Reward and Policy Learning with Demonstrations and Human Feedback Improves Alignment](#)
Chenliang Li, Siliang Zeng, Zeyi Liao, Jiaxiang Li, Dongyeop Kang, Alfredo Garcia, and Mingyi Hong
International Conference on Learning Representations (ICLR) 2025
- W12 [Human-AI Collaborative Taxonomy Construction: A Case Study in Profession-Specific Writing Assistants](#)
Minhwa Lee, Zae Myung Kim, Vivek A. Khetan, and Dongyeop Kang
CHI 2024 In2Writing Workshop 2024
- W11 [Confidence Calibration and Rationalization for LLMs via Multi-Agent Deliberation](#)
Ruixin Yang, Dheeraj Rajagopal, Shirley Anugrah Hayati, Bin Hu, and Dongyeop Kang
ICLR 2024 Workshop on Reliable and Responsible Foundation Models 2024
- W10 [Annotation Imputation to Individualize Predictions: Initial Studies on Distribution Dynamics and Model Predictions](#)
London Lowmanstone, Ruyuan Wan, Risako Owan, Jaehyung Kim, and Dongyeop Kang
Workshop on Perspectivist Approaches to NLP (NLPerspectives) @ECAI 2023 2023
- W9 [An Analysis of Reader Engagement in Literary Fiction through Eye Tracking and Linguistic Features](#)
Rose Neis, Karin de Langis, Zae Myung Kim, and Dongyeop Kang
Workshop on Narrative Understanding (WNU) @ACL 2023 2023
- W8 [Decoding the End-to-end Writing Trajectory in Scholarly Manuscripts](#)
Ryan Koo, Anna Martin, Linghe Wang, and Dongyeop Kang
Proceedings of the Second Workshop on Intelligent and Interactive Writing Assistants (In2Writing) at CHI 2023 https://minnesotanlp.github.io/REWARD_demo/, 2023
- W7 [Read, Revise, Repeat: A System Demonstration for Human-in-the-loop Iterative Text Revision](#)
Wanyu Du, Zae Myung Kim, Vipul Raheja, Dhruv Kumar, and Dongyeop Kang
Proceedings of the First Workshop on Intelligent and Interactive Writing Assistants (In2Writing 2022) 2022
Best paper award

- W6 [User or Labor: An Interaction Framework for Human-Machine Relationships in NLP](#)
Ruyuan Wan, Naome Etori, Karla Badillo-urquiola, and Dongyeop Kang
Proceedings of the Fourth Workshop on Data Science with Human-in-the-Loop (Language Advances) 2022
- W5 [Visualizing Cross-Lingual Discourse Relations in Multilingual TED Corpora](#)
Zae Myung Kim, Vassilina Nikoulina, Dongyeop Kang, Didier Schwab, and Laurent Besacier
Proceedings of the 2nd Workshop on Computational Approaches to Discourse 2021
- W4 [Understanding Out-of-distribution: A Perspective of Data Dynamics](#)
Dyah Adila and Dongyeop Kang
ICBINB@NeurIPS 2021
- W3 [GenAug: Data Augmentation for Finetuning Text Generators](#)
Steven Y. Feng, Varun Gangal, Dongyeop Kang, Teruko Mitamura, and Eduard Hovy
Deep Learning Inside Out (DeeLIO) Workshop at EMNLP 2020 2020
- W2 [Document-Level Definition Detection in Scholarly Documents: Existing Models, Error Analyses, and Future Directions](#)
Dongyeop Kang, Andrew Head, Risham Sidhu, Kyle Lo, Daniel Weld, and Marti A. Hearst
First Workshop on Scholarly Document Processing (SDP) at EMNLP 2020 2020
- W1 [News2Images: Automatically Summarizing News Articles into Image-Based Contents via Deep Learning](#)
Jung-Woo Ha, Dongyeop Kang, Hyuna Pyo, and Jeonghee Kim
INRA@RecSys 2015

Archived Preprints and Papers Under Review

- A17 [Do LLMs Recognize Your Latent Preferences? A Benchmark for Latent Information Discovery in Personalized Interaction](#)
Ioannis Tsaknakis, Bingqing Song, Shuyu Gan, Dongyeop Kang, Alfredo Garcia, Gaowen Liu, Charles Fleming, and Mingyi Hong
2025
- A16 [When Thoughts Meet Facts: Reusable Reasoning for Long-Context LMs](#)
Soyeong Jeong, Taehee Jung, Sung Ju Hwang, Joo-Kyung Kim, and Dongyeop Kang
under review, 2025
- A15 [Are LLM Agents Behaviorally Coherent? Latent Profiles for Social Simulation](#)
James Mooney, Josef Woldense, Zheng Robert Jia, Shirley Anugrah Hayati, My Ha Nguyen, Vipul Raheja, and Dongyeop Kang
2025
- A14 [Thinking Like A Lawyer In The Age Of Generative AI: Cognitive Limits On AI Adoption Among Lawyers](#)
Daniel Schwarcz, Debarati Das, Dongyeop Kang, and Brett McDonnell
under review, 2025
- A13 [Toward Evaluative Thinking: Meta Policy Optimization with Evolving Reward Models](#)
Zae Myung Kim, Chanoo Kim, Vipul Raheja, and Dongyeop Kang
under review, 2025
- A12 [A Framework for Robust Cognitive Evaluation of LLMs](#)
Karin de Langis, Jong Inn Park, Bin Hu, Khanh Chi Le, Andreas Schramm, Michael C. Mensink, Andrew Elfenbein, and Dongyeop Kang
under review, 2025

- A11 [Stealing Creator's Workflow: A Creator-Inspired Agentic Framework with Iterative Feedback Loop for Improved Scientific Short-form Generation](#)
Jong Inn Park, Maanas Taneja, Qianwen Wang, and Dongyeop Kang
2025
- A10 [Learning Explainable Dense Reward Shapes via Bayesian Optimization](#)
Ryan Koo, Ian Yang, Vipul Raheja, Mingyi Hong, Kwang-Sung Jun, and Dongyeop Kang
under review, 2025
- A9 [ScholaWrite: A Dataset of End-to-End Scholarly Writing Process](#)
Khanh Chi Le, Linghe Wang, Minhwa Lee, Ross Volkov, Luan Tuyen Chau, and Dongyeop Kang
under review, 2025
- A8 [CoTaxon: Enhancing Domain Expertise through Human-AI Collaborative Taxonomy Construction](#)
Minhwa Lee, Zae Myung Kim, Vivek Khetan, Alex Kass, and Dongyeop Kang
under review, 2025
- A7 [LLM Leadership Coach for College Students: Exploring the Potential of LLM-Based Chatbots for College Leadership Coaching](#)
Nga Do, Jessica Wang, Zach Roper, Dongyeop Kang, and Richard Landers
under review, 2025
- A6 [Anchors Aweigh! Sail for Optimal Unified Multi-Modal Representations](#)
Minoh Jeong, Min Namgung, Zae Myung Kim, Dongyeop Kang, Yao-Yi Chiang, and Alfred Hero
under review, 2025
- A5 [SelectLLM: Can LLMs Select Important Instructions to Annotate?](#)
Ritik Sachin Parkar, Jaehyung Kim, Jong Inn Park, and Dongyeop Kang
under review, 2024
- A4 [Shallow Synthesis of Knowledge in GPT-Generated Texts: A Case Study in Automatic Related Work Composition](#)
Anna Martin-Boyle, Aahan Tyagi, Marti A. Hearst, and Dongyeop Kang
under review, 2024
- A3 [Under the Surface: Tracking the Artifactuality of LLM-Generated Data](#)
Debarati Das, Karin De Langis, Anna Martin-Boyle, Jaehyung Kim, Minhwa Lee, Zae Myung Kim, Shirley Anugrah Hayati, Risako Owan, Bin Hu, Ritik Parkar, Ryan Koo, Jonginn Park, Aahan Tyagi, Libby Ferland, Sanjali Roy, Vincent Liu, and Dongyeop Kang
under review, 2024
- A2 [A Survey of Diffusion Models in Natural Language Processing](#)
Hao Zou, Zae Myung Kim, and Dongyeop Kang
under review, 2023
- A1 [Complex Mathematical Symbol Definition Structures: A Dataset and Model for Coordination Resolution in Definition Extraction](#)
Anna Martin-Boyle, Andrew Head, Kyle Lo, Risham Sidhu, Marti A. Hearst, and Dongyeop Kang
under review, 2023

TALKS

Invited Talks and Guest Lectures

Invited speaker – May Brodbeck Outreach series, UMN Department of Philosophy

Oct 2025

Invited speaker – Seoul National University	Aug 2025
Invited speaker – Korea University	Aug 2025
Invited speaker – Allen Institute for AI (AI2)	Jun 2025
Invited speaker – The Undergraduate AI Club	Sep 2024
Invited speaker – Megagon Labs	May 2024
Guest lecture – UMN JOUR8500 Computational Communication Research	Mar 2024
Invited speaker – Thomson Reuters Labs	Nov 2023
Invited speaker – Pennsylvania State University (PSU)	Sep 2023
Invited speaker – UMN NLP/IE group	Sep 2023
Invited speaker – 3M NTFA Symposium	Aug 2023
Invited speaker – Microsoft Research	May 2023
Invited panelist – UMN Law School	May 2023
Interview – Echo (student-run news site of St. Louis Park High School)	Apr 2023
Invited speaker – UMN Korean-American Scientists and Engineers Association (KSEA)	Mar 2023
Invited speaker – Google People+AI Research (PAIR)	Feb 2023
Invited speaker – Hyundai AI	Dec 2022
Invited speaker – NSF ROSE-HUB	Nov 2022
Invited speaker – 3M NTFA Symposium	Sep 2022
Invited speaker – Yonsei University	Jul 2022
Invited speaker – KAIST CS	Jul 2022
Invited speaker – LG AI Research	Jul 2022
Invited speaker – Samsung Research	Jul 2022
Invited speaker – Grammarly	Jul 2022
Invited speaker – Thomson Reuters Labs	Jul 2022
Invited speaker – USC ISI AI Seminar	Mar 2022
Guest lecture – UMN The AI Undergraduate Club	Mar 2022
Invited speaker – Naver AI US	Feb 2022
Invited speaker and panelist – CMU Language Technology Institute (LTI)	Feb 2022
Invited speaker – GaTech NLP Seminar	Dec 2021
Invited speaker – Minnesota Robotic Institute Colloquium	Nov 2021
Invited speaker – KAIST SE Colloquium	Nov 2021
Invited speaker – Naver Labs Europe	Nov 2021
Invited speaker – Grammarly AI	Aug 2021
Invited speaker – SNU Summer AI School	Aug 2021
Invited speaker – University of Wisconsin - Madison, CS Department	Mar 2021
Invited speaker – University of Rochester, CS Department	Mar 2021
Invited speaker – University of Minnesota - Twin Cities, CS&E Colloquium	Mar 2021
Invited speaker – KAIST AI Department	Feb 2021
Invited speaker – KAIST Colloquium	Nov 2020
Invited speaker – GIST EECS Colloquium	Nov 2020
Invited speaker – Berkeley AI Research (BAIR) Workshop	Jul 2020
Invited speaker – CMU LTI Seminar	Jul 2020
Invited speaker – POSTECH AI Seminar	Jul 2020

TEACHING AND CURRICULUM DEVELOPMENT

Courses

CSCI 8980 - Large Language Model - Spring 2026 (Scheduled)

CSCI 5541 - Natural Language Processing - Spring 2023, Fall 2023, Spring 2024, Fall 2024, Fall 2025

CSCI 5980 - Natural Language Processing (NLP) with Deep Learning - Fall 2022

CSCI 8980 - Introduction to Natural Language Processing (NLP) Research - Spring 2022

ADVISING AND MENTORING

Current Ph.D. Students

Karin de Langis, DDF Fellow

Risako Owan (co-advised with Gini)

Zae Myung Kim, 3M & DDF Fellow

Shirley Anugrah Hayati

James Mooney, Amazon MLSys Fellow

Shuyu Gan (co-advised with Hong)

Past Ph.D Students

Debarati Das (co-advised with Srivastava), Ph.D. UMN CS 2025 → Senior Applied Scientist at Microsoft

Jaehyung Kim, Visiting Ph.D. 2023 → CMU Postdoc → Assistant Professor, Yonsei AI

Current Masters and Undergraduate Students

Ruizi Wang

William Walker

Chi Le

Rimika Dhara

Ryan Peters

Past Masters and Undergraduate Students

Ryan Koo, CS&E Undergraduate/Masters → Amazon

Ritik Parkar, Robotics Masters → Thomson Reuters

Linghe Wang, CS&E Undergraduate/Masters → Complexity AI

Jianing Wen, CS&E Undergraduate/Masters → PhD @Northeastern

Bin Hu, CS&E Undergraduate/Masters → Masters @UMaryland

Preston Zhu, CS&E Undergraduate

Vincent Liu, CS&E Undergraduate

Ross Volkov, CS&E Undergraduate

Robert Jia, CS&E Undergraduate → Transferred to GaTech

Tripp Dow, CS&E Undergraduate

Minhwa Lee, visiting Master student (UMass) → Mayo Clinic

Ishaan Gupta, CS&E Undergraduate

Ruixin Yang, visiting Undergraduate (UBC) → GaTech Masters

Jong Inn Park, Data Science Masters, Plan B → Research Assistant, UMN
 Aahan Tyagi, Data Science Masters, Plan B
 Amrutha Shetty, Data Science Masters, Plan B → Data analyst, Malec Engineering
 London Lowmanstone, CS&E Masters → UMN CS Ph.D.
 Hao Zou, CS&E Undergraduate
 Kelsey Neis, Data Science Masters, Plan B → EMBL-EBI
 James Mooney, CS&E Masters → UMN CS Ph.D.
 Ruyuan Wan, Linguistics Masters → University of Notre Dame, CS Ph.D. → Penn State University, CS Ph.D.
 Miguel Miguélez Díaz, Data Science Masters → Amazon
 Yang He, CS&E Masters → Google
 David Ma, CS&E Masters → Optiver
 Petros Karypis, CS&E Undergraduate → UCSD CS Masters → UCSD CS PhD
 Wanyu Du, Grammarly intern → University of Virginia → Amazon AWS

Ph.D./Masters/Undergraduate Committee Member

Zhongxing Zhang (Ph.D., CS&E), *BiMind: A Behavior-aware Dual-Head Reasoning Model for Incorrect Information Detection*, Ph.D. Oral Prelim Exam (OPE), 2026
 Nga Do (Ph.D., Industrial Organizational Psychology), Ph.D. Oral Prelim Exam (OPE), Passed, 2026
 Basel Hussein (Ph.D., Learning Technologies, Education & Human Development), *Now What? An Empirical Description of Goal-Setting, Misalignment, and Learning Along the Way in a Digital Puzzle-Based Video Game*, Ph.D. thesis defense, Passed, 2024
 Jiyeon Pyo (Ph.D., CS&E), *Leveraging Large Language Models for Generating Labeled Mineral Site Record Linkage Data*, OPE/WPE, Passed, 2024
 Zae Myung Kim (Ph.D., CS&E), OPE/WPE, Passed, 2024
 Shirley Anugrah Hayati (Ph.D., CS&E), OPE/WPE, Passed, 2024
 Anna Martin (Ph.D., CS&E), OPE/WPE, Passed, 2024
 London Lowmanstone (Ph.D., CS&E), OPE/WPE, Passed, 2024
 Tianhao Zhang (Ph.D., Applied Mathematics), *Model of the astrocytic morphology remodeling process*, Ph.D. thesis proposal, Passed, 2023
 Maral Abdollahi (Ph.D., Hubbard School), current
 Smitha Muthya Sudheendra (Ph.D., CS&E), current
 Haiwei Ma (Ph.D., CS&E), *Understanding Expressive Writing in Online Health Communities*, current
 Ruyuan Wan (Masters, Linguistics), Plan A (thesis), *Riddikulus: Detection of Persuasion Techniques in Memes*, Masters Thesis, Passed
 Miguel Miguélez Díaz (Masters, Data Science), Plan B (capstone), *Contextual Saliency Variation of Sentiment Classifiers*, Masters Capstone, Passed
 Smitha Muthya Sudheendra (Masters, CS&E) *Computational Trust Approach to Measuring Trust in News Organizations*, Masters Thesis, Passed
 Yu Fang (Masters, CS&E), Directed Research, Passed
 Jared Grambihler (Undergraduate, CS&E), *Drug and Dosage Discovery for Opioid Use Disorder Recovery on Social Media Posts*, Undergraduate Honor Thesis, Passed
 David Ha (Undergraduate, CS&E), *Supplementing Bug Reports using Matched App Reviews*, Undergraduate Honor Thesis, Passed

Risako Owan (Ph.D., CS&E), *A Computational Exploration of Modal Verbs: From Theories to Practice*, OPE/WPE, passed