Ziyu Yao

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Department of Computer Science George Mason University Nguyen Engineering Building 4415 Fairfax, VA 22030 USA

(Last update: April 3, 2025)

Research Interests

My research interests are mainly in three areas: (1) Machine Intelligence: advancing LLMs and LLM Agents in knowledge grounding, reasoning, and planning (exemplar tasks include math reasoning, code generation, and motion planning); (2) Responsible and Trustworthy Human-Machine Interface: studying LLM interpretability (particularly Mechanistic Interpretability), human-Al interaction, and approaches facilitating the democratization of Al techniques; (3) Interdisciplinary Applications: bringing the impact of NLP/Al to domains such as Software Engineering and Education.

Education

2015–2021 Ph.D., The Ohio State University (OSU), Computer Science & Engineering.

(Thesis: On Advancing Natural Language Interfaces: Data Collection, Model Development, and User Interaction. Advisor: Prof. Huan Sun)

2011–2015 **B.E.**, Beijing University of Posts and Telecommunications (BUPT), Communication Engineering.

Professional Experience

2021-present **Assistant Professor**, George Mason University (GMU).

Affiliation: C4I & Cyber Center, Center for Advancing Human-Machine Partnership, and

Institute for Digital InnovAtion (IDIA) at GMU

2021 Summer Research Intern, Microsoft Corporation.

2020 Summer Research Intern, Carnegie Mellon University.

2018 Summer Research Intern, Microsoft Corporation.

2017 Summer Research Intern, Fujitsu Lab of America.

2014–2015 Research Intern, Tsinghua University, Beijing.

Awards and Honors

2024 Outstanding PhD Student Award (to Murong Yue), GMU CS.

2024 **Recognition for Service on Hangs-On Generative AI Tutorial**, GMU College of Engineering and Computing.

2023 **Top Reviewer**, NeurlPS.

2023 Accelerating Foundation Models Research Program, Microsoft Research.

2023 Editor Commendation, Journal of Business and Psychology.

2021 **Best Paper Award**, The IEEE International Conference on Bioinformatics and Biomedicine (BIBM).

2021 Graduate Student Research Award, OSU, CSE.

2020 Presidential Fellowship, OSU.

2020 Rising Star in EECS, UC Berkeley.

2020 Graduate Students Poster Award (Honorable Mention), CSE, OSU.

2019 **NSF Student Travel Award**, The Web Conference (WWW).

2019 Graduate Students Poster Award (Honorable Mention), CSE, OSU.

- 2018 Travel Grant for Graduate Cohort for Women, San Francisco, CRA-W.
- 2015 Beijing Outstanding Graduate Award, Beijing, China.
- 2012, 2014 First-class Scholarship (top 3%), BUPT, China.
 - 2013 **Second-class Scholarship (top 5%)**, BUPT, China.

Publications

(Denotations: My Advisee; Myself; †Equal Contribution); .

PhD Dissertation.

Ziyu Yao, "On Advancing Natural Language Interfaces: Data Collection, Model Development, and User Interaction", The Ohio State University, PhD Dissertation, 2021. [Dissertation]

Preprints.

- 9 Murong Yue and Ziyu Yao. "Efficient but Vulnerable: Benchmarking and Defending LLM Batch Prompting Attack." arXiv preprint arXiv:2503.15551 (2025).
- 8 Saurabh Srivastava, Sweta Pati, and Ziyu Yao. "Instruction-Tuning LLMs for Event Extraction with Annotation Guidelines.;; arXiv preprint arXiv:2502.16377 (2025).
- 7 Pan, Jinhao, Chahat Raj, Ziyu Yao, and Ziwei Zhu. "Beneath the Surface: How Large Language Models Reflect Hidden Bias." arXiv preprint arXiv:2502.19749 (2025).
- 6 Kong, Yangzhe, Daeun Song, Jing Liang, Dinesh Manocha, Ziyu Yao, and Xuesu Xiao. "AutoSpatial: Visual-Language Reasoning for Social Robot Navigation through Efficient Spatial Reasoning Learning." arXiv preprint arXiv:2503.07557 (2025).
- 5 Mohamed Aghzal, Erion Plaku, Gregory J Stein, and Ziyu Yao, "A Survey on Large Language Models for Automated Planning", 2024. [Paper]
- 4 <u>Daking Rai</u>, Rydia R Weiland, Kayla Margaret Gabriella Herrera, Tyler H Shaw, and <u>Ziyu Yao</u>, "Understanding the Effect of Algorithm Transparency of Model Explanations in Text-to-SQL Semantic Parsing", 2024. [Paper]
- 3 <u>Daking Rai</u>, Yilun Zhou, Shi Feng, Abulhair Saparov, and Ziyu Yao, "A Practical Review of Mechanistic Interpretability for Transformer-Based Language Models", 2024. [Paper][GitHub Awesome-Mech-Interp-LM][X/Twitter]
- 2 <u>Hao Yan</u>, Thomas D. Latoza, and <u>Ziyu Yao</u>, "IntelliExplain: Enhancing Conversational Code Generation for Non-Professional Programmers", 2024. [Paper][Website]
- 1 Qineng Wang, Chen Qian, Xiaochang Li, Ziyu Yao, and Huajie Shao, "Lens: A Foundation Model for Network Traffic", 2024. [Paper]

Accepted to Refereed Journals.

- 2 Philseok Lee, Shea Fyffe, Mina Son, Zihao Jia, and Ziyu Yao, "A paradigm shift from "human writing" to "machine generation" in personality test development: An application of state-of-the-art natural language processing", Journal of Business and Psychology (2023) 38:163–190, IF 6.604. [Paper] (Editor Commendation, one of the 13 selected papers out of over 1,000 submissions in 2022)
- Ziyu Yao, Shouzhong Tu, Minlie Huang, Xiaoyan Zhu. "A Semi-Supervised Method for Filtering Chinese Spam Tweets". Journal of Chinese Information Processing 2016, 30(5): 176-186. [Paper in Chinese]

Accepted to Refereed Conference Proceedings.

- 23 Mohamed Aghzal, Xiang Yue, Erion Plaku, and Ziyu Yao, "Evaluating Vision-Language Models as Evaluators in Path Planning", To appear at CVPR 2025. [Paper]
- 22 Murong Yue, Wenlin Yao, Haitao Mi, Dian Yu, Ziyu Yao, and Dong Yu, "DOTS: Learning to Reason Dynamically in LLMs via Optimal Reasoning Trajectories Search", In The Thirteenth International Conference on Learning Representations. (ICLR 2025) [Paper]
- 21 Yuqing Zhou, Ruixiang Tang, Ziyu Yao, and Ziwei Zhu, "Navigating the Shortcut Maze: A Comprehensive Analysis of Shortcut Learning in Text Classification by Language Models", In *Findings of the Association for Computational Linguistics: EMNLP 2024*, pages 2586–2614, Miami, Florida, USA. Association for Computational Linguistics. (EMNLP Findings 2024) [Paper][Code]
- 20 Mohamed Aghzal, Erion Plaku, and Ziyu Yao, "Look Further Ahead: Testing the Limits of GPT-4 in Path Planning." In 2024 IEEE 20th International Conference on Automation Science and Engineering (CASE), pp. 1020-1027. IEEE, 2024. (IEEE CASE 2024) [Paper][Code]
- 19 Daking Rai and Ziyu Yao, "An Investigation of Neuron Activation as a Unified Lens to Explain Chain-of-Thought Eliciting Arithmetic Reasoning of LLMs", In *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 7174–7193, Bangkok, Thailand. Association for Computational Linguistics. (ACL 2024) [Paper][Code] Covered by MIT Tech Review China (Chinese; English Translate)
- Saurabh Srivastava, Chengyue Huang, Weiguo Fan, and Ziyu Yao, "Instance Needs More Care: Rewriting Prompts for Instances Yields Better Zero-Shot Performance", In Findings of the Association for Computational Linguistics: ACL 2024, pages 6211–6232, Bangkok, Thailand. Association for Computational Linguistics. (ACL Findings 2024) [Paper][Code]
- 17 Murong Yue, Jie Zhao, Min Zhang, and Liang Du, Ziyu Yao, "Large Language Model Cascades with Mixture of Thoughts Representations for Cost-efficient Reasoning", In *The Twelfth International Conference on Learning Representations*. (ICLR 2024) [Paper][Code] (Featured in Hugging Face Daily Papers on Oct 5, 2023)
- Saurabh Srivastava, Gaurav Singh, Shou Matsumoto, and Ali Raz, Paulo Costa, Joshua Poore, Ziyu Yao, "MAILEX: Email Event and Argument Extraction". In *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing*, pages 12964–12987, Singapore. Association for Computational Linguistics. (EMNLP 2023). [Paper][Dataset&Code]
- Binfeng Xu, Xukun Liu, Hua Shen, and Zeyu Han, Yuhan Li, Murong Yue, Zhiyuan Peng, Yuchen Liu, Ziyu Yao, Dongkuan Xu, "Gentopia: A Collaborative Platform for Tool-Augmented LLMs". In Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing: System Demonstrations, pages 237–245, Singapore. Association for Computational Linguistics. (EMNLP 2023 Demo-Track) [Paper][Code][Project Website]
- 14 Hao Yan, Saurabh Srivastava, Yintao Tai, Sida I. Wang, Scott Wen-tau Yih, Ziyu Yao, "Learning to Simulate Natural Language Feedback for Interactive Semantic Parsing". In *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 3149–3170, Toronto, Canada. Association for Computational Linguistics. (ACL 2023). [Paper][Code]
- 13 <u>Daking Rai</u>, Bailin Wang, Yilun Zhou, Ziyu Yao, "Improving Generalization in Language Model-based Text-to-SQL Semantic Parsing: Two Simple Semantic Boundary-based Techniques". In *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 2: Short Papers)*, pages 150–160, Toronto, Canada. Association for Computational Linguistics. (ACL 2023). [Paper][Code]

- 12 <u>Daking Rai</u>, Yilun Zhou, Bailin Wang, <u>Ziyu Yao</u>, "Explaining Large Language Model-based Neural Semantic Parsers" (Student Abstract). In *Proceedings of the AAAI Conference on Artificial Intelligence*, *37*(13), 16308-16309. https://doi.org/10.1609/aaai.v37i13.27014 (AAAI 2023 Student Abstract).[Paper]
- 11 Tianbao Xie[†], Chen Henry Wu[†], Peng Shi, Ruiqi Zhong, Torsten Scholak, Michihiro Yasunaga, Chien-Sheng Wu, Ming Zhong, Pengcheng Yin, Sida Wang, Victor Zhong, Bailin Wang, Chengzu Li, Connor Boyle, Ansong Ni, Ziyu Yao, Dragomir Radev, Caiming Xiong, Lingpeng Kong, Rui Zhang, Noah A. Smith, Luke Zettlemoyer, Tao Yu, "UnifiedSKG: Unifying and Multi-Tasking Structured Knowledge Grounding with Text-to-Text Language Models". In *Proceedings of the 2022 Conference on Empirical Methods in Natural Language Processing*, pages 602–631, Abu Dhabi, United Arab Emirates. Association for Computational Linguistics. (EMNLP 2022, acceptance rate: 22.1%). [Paper, Code, Project Website]
- 10 Xiang Yue, Ziyu Yao, Huan Sun, "Synthetic Question Value Estimation for Domain Adaptation of Question Answering". In *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 1340–1351, Dublin, Ireland. Association for Computational Linguistics. (ACL 2022, acceptance rate: 20.75%). [Paper, Code]
- 9 Xiang Yue, Xinliang Frederick Zhang, Ziyu Yao, Simon Lin, Huan Sun, "CliniQG4QA: Generating Diverse Questions for Domain Adaptation of Clinical Question Answering". 2021 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), Houston, TX, USA, 2021, pp. 580-587, doi: 10.1109/BIBM52615.2021.9669300. (IEEE BIBM 2021) [Paper, Code] Best Paper Award
- 8 Ziyu Yao, Frank Xu, Pengcheng Yin, Huan Sun, Graham Neubig, "Learning Structural Edits via Incremental Tree Transformations". In *The Ninth International Conference on Learning Representations* (ICLR 2021). [Paper, Code]
- 7 Ziyu Yao, Yiqi Tang, Scott Wen-tau Yih, Huan Sun, Yu Su, "An Imitation Game for Learning Semantic Parsers from User Interaction", In *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, pages 6883–6902, Online. Association for Computational Linguistics. (EMNLP 2020). [Paper, Code]
- 6 Ziyu Yao, Yu Su, Huan Sun, Scott Wen-tau Yih, "Model-based Interactive Semantic Parsing: A Unified Formulation and A Text-to-SQL Case Study". In 2019 Conference on Empirical Methods in Natural Language Processing (EMNLP 2019). [Paper, Code]
- 5 Boyuan Pan, Hao Li, Ziyu Yao, Deng Cai, Huan Sun, "Reinforced Dynamic Reasoning for Conversational Question Generation". In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics* (ACL 2019). [Paper, Code]
- 4 Ziyu Yao, Jayavardhan Reddy Peddamail, Huan Sun, "CoaCor: Code Annotation for Code Retrieval with Reinforcement Learning", The Web Conference 2019 (WWW 2019). [Paper, Code]
- 3 Ziyu Yao, Xiujun Li, Jianfeng Gao, Brian Sadler, Huan Sun, "Interactive Semantic Parsing for If-Then Recipes via Hierarchical Reinforcement Learning", The AAAI Conference on Artificial Intelligence 2019 (AAAI 2019). [Paper, Code] Spotlight
- 2 Ziyu Yao, Daniel S. Weld, Wei-Peng Chen, Huan Sun, "StaQC: A Systematically Mined Question-Code Dataset from Stack Overflow", The Web Conference 2018 (WWW 2018). [Paper, Code]
- 1 Li Zhao, Minlie Huang, Ziyu Yao, Rongwei Su, Yingying Jiang, Xiaoyan Zhu. "Semi-Supervised Multinomial Naive Bayes for Text Classification by Leveraging Word-Level Statistical Constraint", The AAAI Conference on Artificial Intelligence 2016 (AAAI 2016). [Paper]

Accepted to Refereed Workshop Proceedings.

- 5 Murong Yue[†], Wenhan Lyu[†], Wijdane Mifdal, Yixuan Zhang, Jennifer Suh, and Ziyu Yao, "MathVC: An LLM-Simulated Multi-Character Virtual Classroom for Mathematics Education", **AAAI AI4Edu Workshop**, **2025**. [Paper][Website] (Invited presentation at Wolfram Research LLM Agents Colloquium)
- 4 Sam Miller[†], Daking Rai[†], and Ziyu Yao, "Mechanistic Understanding of Language Models in Syntactic Code Completion", **AAAI Know4FM Workshop**, **2025**. [Paper]
- 3 Mohamed Aghzal, Erion Plaku, and Ziyu Yao, "Can Large Language Models be Good Path Planners? A Benchmark and Investigation on Spatial-temporal Reasoning", ICLR Workshop on LLM Agents, 2024. [Paper][Code]
- 2 Peizhao Li, Xuchao Zhang, Ziyu Yao, Wei Cheng, Haifeng Chen, Hongfu Liu, "Code Editing from Few Exemplars by Adaptive Multi-Extent Composition", The Deep Learning for Code Workshop at The Tenth International Conference on Learning Representations (ICLR 2022 DL4Code). [Paper]
- Jayavardhan Reddy Peddamail, Ziyu Yao, Zhen Wang, Huan Sun, "A Comprehensive Study of StaQC for Deep Code Summarization", SIGKDD 2018 Deep Learning Day. [Paper]

Invited Talks

- 2024 Mechanistic Understanding of LLMs in Reasoning and Code Generation, Invited talk at University of Cambridge [Publicity].
- 2024 MathVC: An LLM-Simulated Multi-Character Virtual Classroom for Mathematics Education, Invited talk at Wolfram Research, Online Colloquium for LLM Agents for Modeling Group Dynamics [Colloquium Website].
- The Progress, Opportunities, and Challenges of Semantic Parsing, Invited talk at CTO Data Science Speaker Series at Bloomberg. Host: Daniel Preotiuc-Pietro [Twitter/X Cover].
- 2024 Towards Understanding and Modeling the Interaction with Large Language Models, Invited talk at New York University. Host: Abulhair Saparov.
- 2024 **Interactive Semantic Parsing**, Invited talk at Microsoft Research. Host: José Cambronero, Sumit Gulwani.
- 2024 **Building Natural Language Interfaces in the Age of Large Language Models**, Invited talk at Indiana University, Indianapolis. Host: Ming Jiang.
- 2024 **Towards Enhancing the Utilization of Large Language Models for Humans**, Invited talk at Virginia Tech. Host: Chang-Tien Lu.
- 2024 **Towards Enhancing the Utilization of Large Language Models for Humans**, Invited talk at University of Arizona. Host: Steven Bethard.
- 2023 **Building Natural Language Interfaces in the Age of Large Language Models**, Invited talk at Tsinghua University. Host: Minlie Huang.
- 2023 Large Language Model Cascades with Mixture of Thoughts Representations for Cost-efficient Reasoning, Invited talk at Microsoft Semantic Machines. Host: Hao Fang.
- 2023 **Building Natural Language Interfaces in the Age of Large Language Models**, Invited talk at Google NLP Reading Group. Host: Pengcheng Yin.
- 2023 **Building Natural Language Interfaces in the Age of Large Language Models**, Invited talk at Apple Inc. Host: Yunyao Li.
- 2023 **Information Acquisition in the Age of Language Models**, Invited talk at <u>GMU</u> C4I & Cyber Center..

- 2022 **Challenges in Constructing Human-centric Natural Language Interfaces**, Invited talk at GMU Statistics Department. Host: Nicholas Rios.
- 2022 **On Building Natural Language Interfaces for "Humans"**, Invited talk at <u>ServiceNow Research</u>. Host: Dzmitry Bahdanau.
- 2022 **Building Interactive and Adaptive Question Answering Systems**, Invited talk at CLSP (Center for Language and Speech Processing) Seminar, Johns Hopkins University. Host: Kevin Duh, Ben Van Durme.
- 2022 **Building Interactive and Adaptive Question Answering Systems**, Invited talk at GMU Center for Advancing Human-Machine Partnership..
- 2021 **Building Interactive Natural Language Interfaces**, Invited talk at <u>Brandeis University</u>. Host: Hongfu Liu.
- 2020 On Building an Interactive Natural Language Interface: An intelligent agent that can communicate, collaborate and learn, Invited talk at Microsoft Research Al Breakthroughs Workshop (virtually). Invited by: Ahmed Hassan Awadallah, Alex Polozov.
- 2020 **Building Natural Language Interfaces to Programs**, Invited talk at VMware, Beijing (virtually). Host: Jin He, Kevin Song.
- 2020 **Towards Building Interactive and Collaborative Natural Language Interfaces**, Invited talk at NeuLab, Carnegie Mellon University (virtually). Host: Graham Neubig.
- 2019 Towards Building Interactive and Collaborative Natural Language Interfaces, Invited talk at the Chair of Management Information System, ETH Zurich, Host: Stefan Feuerriegel.

Research Funding

- 9 **"PatriBot (Patriot GenAl Chatbot)"**, GMU Foundation, \$200,000 (my part: \$100,000) without overhead, 05/2024-05/2025. Role: Co-PI. (PI: Sarah Campell at GMU)
- 8 "Collaborative Research: Fostering Mathematical Modeling Competencies through Collaborative Learning in a Large Language Model (LLM) Simulated Virtual Classroom", National Science Foundation, \$899,920 (GMU: \$578,047, my part: ~\$300,000), 09/2024-08/2027. Role: PI (lead institution).
- 7 **"Securing the Supply Chain of LLMs as Software"**, Virginia Commonwealth Cyber Initiative, \$49,997 (GMU:\$49,997, my part: ~\$40,000) without overhead, 01/2024-06/2025. Role: PI.
- 6 "A Foundation Model-Simulated Virtual Classroom for PreK-12 STEM Education", Microsoft Research, Accelerating Foundation Models Research Program, \$30,000 Azure credits, 10/2023-04/2025. Role: Pl.
- 5 "Collaborative Research: SHF: Medium: Toward Understandability and Interpretability for Neural Language Models of Source Code", National Science Foundation, \$1,074,380 (GMU:\$745,197, my part: \$391,609), 10/2023-09/2027. Role: Co-PI → Site PI.
- 4 "ARLIS Support for IARPA's STG Al-ML Solutions Program", Intelligence Advanced Research Projects Activity/UMD ARLIS, \$100,000 (GMU:\$100,000, my part: ~\$30,000), 10/2022-03/2024. Role: Co-PI. (PI: Ali Raz at GMU)
- 3 "NSF Convergence Accelerator Track G: Secure Texting over Non-cooperative Networks and Anti-jamming Enhancement in 5G", National Science Foundation, 09/2022-07/2023. Role: Senior Personnel (1 summer month). (PI: Kai Zeng at GMU)

- 2 "Securing Interactions Between Humans and Machines", Virginia Commonwealth Cyber Initiative, \$59,971 (GMU:\$59,971, my part: ~\$30,000) without overhead, 12/2022-12/2023. Role: PI.
- 1 "AI Engineering Seedlings", US Department of Defense/UMD ARLIS, \$100,000 (GMU:\$100,000, my part: \sim \$30,000), 07/2021–07/2022. Role: Co-PI. (PI: Ali Raz at GMU)

Teaching Experience

*denotes newly developed course

2024 Fall CS478: Natural Language Processing [Website].

2024 Spring CS678: Advanced Natural Language Processing [Website].

2023 Fall CS678: Advanced Natural Language Processing [Website].

2023 Spring CS478*: Natural Language Processing [Website].

2022 Fall CS678*: Advanced Natural Language Processing [Website].

2022 Spring CS499: Natural Language Processing [Website].

2021 Fall CS695: Special Topics on Natural Language Processing [Website].

Mentoring Experience

Mentored PhD Students.

Hao Yan (Spring'22-)

Daking Rai (Spring'22-)

Saurabh Srivastava (Spring'22-)

Murong Yue (Fall'22-; Outstanding PhD Student at GMU CS, 2024)

Mohamed Aghzal (Spring'23-)

Mentored/Collaborated Master Students.

Sweta Pati (Summer'24-)

Samuel Miller (Summer'24-)

Gaurav Singh (Spring'22)

Janit Bidhan (Fall'22)

Mentored/Collaborated Undergraduate Students.

Jiwon Chung (Spring'25-)

Sai Adith Senthil Kumar (Spring'24-, funded by VA CCI)

Saipavan Perepa (Spring'24-Spring'25, funded by VA CCI)

Wijdane Mifdal (Fall'23-Spring'24, funded by OSCAR FW)

Qineng Wang (Spring'23-Winter'23, remote intern from ZJU → PhD@Northwestern)

Mariana Ritchie (Spring'22)

Brian Meike (Spring'22)

Soumithri Gadepalli (Spring'22)

Yintao Tai (Fall'21, remote intern from Univ. of Edinburgh)

Mentored/Collaborated High School Students.

Angela Xiang (Summer'24, Montgomery Blair High School, through ASSIP)

Sarah Li (Summer'24, McLean High School, through ASSIP)

Mihir Kulshreshtha (Summer'23, Thomas Jefferson High School for Science and Technology, through ASSIP)

Anika Giri (Summer'23, Chantilly High School)

School/Department Services

Department Committees.

SWE Master Recruiting & TT Faculty Recruiting Committee (Fall'23 - Spring'24)

PhD Recruiting Committee (Fall'22 - Spring'23)

Faculty Search Committee (Fall'21 - Spring'22)

Comprehensive Exam Committees.

Joshua Otten (Fall'24)

Nathaniel Krasner (Spring'24)

Murong Yue (Spring'24)

Saurabh Srivastava (Spring'24)

Daking Rai (Fall'23)

Hao Yan (Fall'23)

Syeda Sabrina Akter (Fall'23)

Milind Agarwal (Fall'23)

Fahim Faisal (Fall'22)

Jonathan Mbuya (Fall'22)

Joost Bottenbley (Fall'22)

Md Mahfuz Ibn Alam (Spring'22)

Abhisekh Rana (Spring'22)

Proposal Defense Committees.

Abhishek Paudel (Fall'24)

Milind Agarwal (Fall'24)

Jonathan Mbuya (Summer'24)

Fahim Faisal (Spring'24)

Kai North (Spring'24)

Anowarul Kabir (Spring'24)

Md Mahfuz Ibn Alam (Spring'23)

Thesis Defense Committees.

Kai North (Summer'24)

Md Mahfuz Ibn Alam (Summer'24)

Professional Activities

Outreach.

Faculty Mentor, CRA Undergraduate Research to PhD (UR2PhD)	2024
Invited Guest Lecturer at GMU School of Education	Spring 2024
Invited Guest Lecturer at GMU Department of Health Administration and Policy	Spring 2024
Invited Speaker at Morgan State University AI Camp	2023
Invited Speaker at "Girls Who Code" Chapter at Chantilly High School	2023
Panelist at NSF-funded Webinar about "Securely Operating Through 5G Infrastr	ucture" 2023
Faculty Judge at the Science and Engineering Fair at Thomas Jefferson Hig	h School for
Science and Technology	2023
Faculty Mentor at SIGKDD Undergraduate Consortium	2022

Panel Reviewer.	
NSF: National Science Foundation	2023 –
Editor Services.	
ACM SIGAI: Newsletter co-editor	2022 –
Organizing Committees. NAACL'24: 2024 Annual Conference of the North American Chapter of the Associ	ation for
Computational Linguistics (Diversity & Inclusion Chair) MASC-SLL: 10th Mid-Atlantic Student Colloquium on Speech, Language and Learnin first-ever lead of this annual student event; we achieved a record number of 66 submissions and 130	2024 g (GMU's attendees
$\frac{\text{SUKI at NAACL'22}:}{\text{NLP4Prog at ACL'21}:} \text{ Workshop on Structured and Unstructured Knowledge Integrat} \\ \frac{\text{NLP4Prog at ACL'21}:}{\text{NLP4Prog at ACL'21}:} \text{ The First Workshop on NLP for Programming}$	2023 ion 2022 2021
Area Chairs or Senior Program Committees.	
<u>ARR</u> : ACL Rolling Review (This is an open review platform for papers submitted to ACL NAACL, etc., starting from 2023)	, EMNLP, 2023 –
ACL: Annual Meeting of the Association for Computational Linguistics	2023 –
EMNLP: Conference on Empirical Methods in Natural Language Processing AAAI: The AAAI Conference on Artificial Intelligence	2022 – 023,2024
Session Chair.	
AAAI: The AAAI Conference on Artificial Intelligence	2023
Program Committees/Reviewers (Conference).	
ARR: ACL Rolling Review	2021 -
EACL SRW: EACL Student Research Workshop	2023
<u>ICLR</u> : International Conference on Learning Representations <u>NeurIPS</u> : Annual Conference on Neural Information Processing Systems	2024 2023
NAACL: Annual Conference of the North American Chapter of the Association for Computational Linguistics	2023
EMNLP: Conference on Empirical Methods in Natural Language Processing 2018, 20 MSR: Mining Software Repositories Conference	20, 2021 2021
AACL: Conference of the Asia-Pacific Chapter of the Association for Computational	
Linguistics AAAI: The AAAI Conference on Artificial Intelligence	2020
NLPCC: Conference on Natural Language Processing and Chinese Computing	2020
CONLL: Conference on Computational Natural Language Learning	2019
Secondary/External Reviewer: ACL: Annual Meeting of the Association for Computational Linguistics 20	18, 2020
<u>KDD</u> : SIGKDD Conference on Knowledge Discovery and Data Mining 2017, 20	
NAACL: Annual Conference of the North American Chapter of the Association for Computational Linguistics	2019
· · · · · · · · · · · · · · · · · · ·	16, 2018
WWW: International World Wide Web Conference	2017
<u>CIKM</u> : International Conference on Information and Knowledge Management	2016

Program Committees/Reviewers (Workshop).		
SRW at NAACL 2025: NAACL Student Research Workshop 202	25	
TRL at NeurIPS 2024: 3th Table Representation Learning Workshop 202	24	
NLP4PI at EMNLP 2024: Workshop on NLP for Positive Impact 202	24	
InterNLP at NeurIPS 2022: Workshop on Interactive Learning for Natural Language	ξe	
Processing 202	22	
BigData-IT at IEEE BigData 2022: Workshop on Knowledge Discovery and Data Mining o	n	
IT Operations 202	22	
HCI+NLP at NAACL 2022: Bridging Human-Computer Interaction and Natural Language	ξe	
Processing 202	22	
DL4Code at ICLR 2022: Deep Learning for Code 202	22	
IntEx-SemPar at EMNLP 2020: Interactive and Executable Semantic Parsing Workshop 2020		
NLI at ACL 2020: Natural Language Interface Workshop 202	20	
SRW at ACL 2019: Student Research Workshop 201	١9	
Reviewers (Journal).		
Computational Linguistics: Computational Linguistics, MIT Press 2024	_	
TACL: Transactions of the Association for Computational Linguistics 2024	_	
TKDD: ACM Transactions on Knowledge Discovery from Data 2022	_	
TKDE: IEEE Transactions on Knowledge and Data Engineering 2022	-	