

783 Dreese Laboratories, 2015 Neil Ave, Columbus, OH 43210, USA

■ su.809@osu.edu | Ahttp://ysu1989.github.io | Dysu1989 | Google Scholar

Education __ **University of California, Santa Barbara** Santa Barbara, CA, USA Ph.D. IN COMPUTER SCIENCE 2012 - 2018 · Advisor: Xifeng Yan • Dissertation: Towards Democratizing Data Science with Natural Language Interfaces Outstanding Dissertation Award **Tsinghua University** Beijing, China **B.Eng.** IN COMPUTER SCIENCE AND TECHNOLOGY 2008 - 2012 • Outstanding Freshman & Outstanding Graduate Awards Professional Experience _____ **Department of Computer Science & Engineering, The Ohio State University** Columbus, OH, USA DISTINGUISHED ASSISTANT PROFESSOR OF ENGINEERING INCLUSIVE EXCELLENCE 2020 - Present LEAD OF FOUNDATIONAL AI, ICICLE AI INSTITUTE LEAD OF MACHINE LEARNING FOUNDATIONS, IMAGEOMICS INSTITUTE **Microsoft Semantic Machines** Berkeley, CA, USA SENIOR RESEARCHER 2018 - Present **Department of Computer Science & Engineering, The Ohio State University** Columbus, OH, USA VISITING ASSISTANT PROFESSOR 2018 - 2019 **Microsoft Research** Redmond, WA, USA RESEARCH INTERN 2016, 2017 **U.S. Army Research Laboratory** Adelphi, MD, USA VISITING RESEARCHER 2015, 2016 IBM T.J. Watson Research Center Yorktown Heights, NY, USA RESEARCH INTERN 2015 Honors & Awards 2022 **Outstanding Paper Award** COLING 2022 Distinguished Assistant Professorship of Engineering Inclusive Excellence OSU Third-Place Honor, Inaugural Alexa Prize TaskBot Challenge 2022 Amazon Work at Microsoft Deployed as the Official Conversational Interface for Outlook 2020 Microsoft 2019 Best of IEEE ICDM 2019 Selection **IEEE** 2019 **Outstanding Dissertation Award UCSB** 2018 Best Distinguished Graduate Student Lecture **UCSB** 2012 **Outstanding Graduate Award** Tsinghua University 2009 - 2011 Merit-based Scholarships Tsinghua University 2008 **Outstanding Freshman Award** Tsinghua University

Teaching.

AU22 CSE5889: Experiential Introduction to Imageomics (G)

AU22	(SEI=4.57/5) CSE6521: Artificial Intelligence (G)	OSU
SP22	(SEI=4.13/5) CSE5525: Foundations of Speech and Language Processing (U/G)	OSU
AU21	(SEI=4.22/5) CSE6521: Artificial Intelligence (G)	OSU
AU20	(SEI=4.75/5) CSE5539: Cutting-Edge Topics in Natural Language Processing (U/G)	OSU
SP20	(SEI=4.61/5) CSE5243: Introduction to Data Mining (U/G)	OSU

Grants

Since joining OSU in 2020, I have obtained 10 funded projects (7 of which as PI or Co-PI), totaling over \$37M, with approximately \$2.5M for my share. In addition to foundational AI research, I also actively participate in large multi-disciplinary endeavors and serve in leadership roles. I serve as lead of Foundational AI in the NSF AI Institute - ICICLE and lead of Machine Learning Foundations in the NSF HDR Institute - Imageomics.

- [10] Army Research Lab: Knowledge-based Cumulative and Efficient Task Learning of Intelligent Agents Role: Sole PI. Grant: \$464,230. 2022-2025 (with an option year).
- [9] **Cisco:** *Transformer-based Graph Neural Networks for Knowledge Graph Reasoning at Scale* Role: Sole Pl. Grant: \$199,876. 2022-2023.
- [8] **Cisco:** *Building Transparent Interactive Natural Language Interfaces to Databases* Role: Co-PI. PI: Huan Sun. Grant: \$199,976. My share: \$64,184. 2022-2023.
- [7] Walmart: *Product Question Answering for Walmart Online Shopping* Role: Sole Pl. Grant: \$120,109. 2022-2023.
- [6] Amazon: Alexa Prize Simbot Challenge Role: Sole PI. Grant: \$250,000. 2022-2023.
- [5] NSF National AI Research Institute: ICICLE: Intelligent CyberInfrastructure with Computational Learning in the Environment

Role: Senior Personnel (*Lead of Foundational AI*). PI: Dhabaleswar K. Panda. Grant: \$19,999,998. My share: approximately \$450,000. 2021-2026.

[4] NSF HDR Institute: Imageomics: A New Frontier of Biological Information Powered by Knowledge-guided Machine Learning

Role: Senior Personnel (*Lead of ML Foundations*). PI: Tanya Berger-Wolf. Grant: \$14,969,077. My share: approximately \$800,000. 2021-2026.

[3] NSF Convergence Accelerator: Actionable Sensemaking Tools for Curating and Authenticating Information in the Presence of Misinformation during Crises

Role: Senior Personnel. PI: Srinivasan Parthasarathy. Grant: \$749,997. 2021-2022.

- [2] **OSU TDAI Research Pilot Grant:** *Practical and Comprehensive Social Media Pharmacovigilance* Role: Sole Pl. Grant: \$50,000. 2021-2022.
- [1] **Fujitsu Lab of America:** *Large-scale, Ontology-preserving Knowledge Graph Embedding* Role: Sole Pl. Gift grant: \$50,000. 2020-2021.

Publications.

I have published 44 refereed articles, including 3 journal, 4 workshop, and 37 conference articles. 28 of the conference publications appear in top conferences per csrankings.org including ACL (5), EMNLP (14), NAACL (3), WWW (2), SIGKDD (1), CVPR (1), SIGIR (1), and AAAI (1).

+: My advisee at OSU. #: My intern at Microsoft

PREPRINTS

[4] Don't Generate, Discriminate: A Proposal for Grounding Language Models to Real-World Environments

Yu Gu⁺, Xiang Deng, Yu Su arXiv preprint arXiv:2212.09736

[3] A Retrieve-and-Read Framework for Knowledge Graph Link Prediction

Vardaan Pahuja⁺, Boshi Wang, Hugo Latapie, Jayanth Srinivasa, Yu Su arXiv preprint arXiv:2212.09724

[2] Privacy-Preserving Domain Adaptation of Semantic Parsers

Fatemehsadat Mireshghallah[#], Richard Shin, Yu Su, Tatsunori Hashimoto, Jason Eisner arXiv preprint arXiv:2212.10520

[1] LLM-Planner: Few-Shot Grounded Planning for Embodied Agents with Large Language Models

Chan Hee Song⁺, Jiaman Wu⁺, Clayton Washington⁺, Brian M. Sadler, Wei-Lun Chao, Yu Su arXiv preprint arXiv:2212.04088

JOURNAL PAPERS

Detecting Drug-Drug Interactions Between COVID-19 Therapies and Concomitant Medications Using the FDA Adverse Event Reporting System

Eugene Jeong, Scott D Nelson, Yu Su, Bradley Malin, Lang Li, You Chen Frontiers in Pharmacology, 2022

[2] Random Control Selection for Conducting High-throughput Adverse Drug Events Screening Using Large-scale Longitudinal Health Data

Chien-Wei Chiang, Pengyue Zhang, Macarius Donneyong, You Chen, Yu Su, Lang Li CPT: Pharmacometrics & Systems Pharmacology (**PSP**), 2021

[1] Task-Oriented Dialogue as Dataflow Synthesis

Semantic Machines, Jacob Andreas, John Bufe, David Burkett, Charles Chen, Josh Clausman, Jean Crawford, Kate Crim, Jordan DeLoach, Leah Dorner, Jason Eisner, Hao Fang, Alan Guo, David Hall, Kristin Hayes, Kellie Hill, Diana Ho, Wendy Iwaszuk, Smriti Jha, Dan Klein, Jayant Krishnamurthy, Theo Lanman, Percy Liang, Christopher H. Lin, Ilya Lintsbakh, Andy McGovern, Aleksandr Nisnevich, Adam Pauls, Dmitrij Petters, Brent Read, Dan Roth, Subhro Roy, Jesse Rusak, Beth Short, Div Slomin, Ben Snyder, Stephon Striplin, Yu Su, Zachary Tellman, Sam Thomson, Andrei Vorobev, Izabela Witoszko, Jason Wolfe, Abby Wray, Yuchen Zhang, and Alexander Zotov *Transactions of the Association for Computational Linguistics* (**TACL**), 2020

Deployed as the official conversational interface for Microsoft Outlook

CONFERENCE PAPERS

When More Data Hurts: A Troubling Quirk in Developing Broad-Coverage Natural Language Understanding Systems

Elias Stengel-Eskin[#], Emmanouil Antonios Platanios, Adam Pauls, Sam Thomson, Hao Fang, Benjamin Van Durme, Jason Eisner, and Yu Su

Conference on Empirical Methods in Natural Language Processing (EMNLP), 2022

[36] Thinking about GPT-3 In-Context Learning for Biomedical IE? Think Again

Bernal Jiménez Gutiérrez⁺, Nikolas McNeal⁺, Clay Washington⁺, You Chen, Lang Li, Huan Sun, and Yu Su Conference on Empirical Methods in Natural Language Processing: Findings (**Findings of EMNLP**), 2022

[35] Knowledge Base Question Answering: A Semantic Parsing Perspective

Yu Gu⁺, Vardaan Pahuja⁺, Gong Cheng, and Yu Su Conference on Automated Knowledge Base Construction (**AKBC**), 2022

[34] ArcaneQA: Dynamic Program Induction and Contextualized Encoding for Knowledge Base Question Answering

Yu Gu⁺ and Yu Su

International Conference on Computational Linguistics (COLING), 2022

Outstanding Paper Award

[33] Bootstrapping a User-Centered Task-Oriented Dialogue System

Shijie Chen⁺, Ziru Chen, Xiang Deng, Ashley Lewis, Lingbo Mo, Samuel Stevens⁺, Zhen Wang, Xiang Yue, Tianshu Zhang, Yu Su, Huan Sun

Alexa Prize TaskBot Challenge Proceedings, 2022

[32] One Step at a Time: Long-Horizon Vision-and-Language Navigation with Milestones

Chan Hee Song⁺, Jihyung Kil, Tai-Yu Pan, Brian M. Sadler, Wei-Lun Chao, Yu Su IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022

[31] Bridging the Generalization Gap in Text-to-SQL Parsing with Schema Expansion

Chen Zhao[#], Yu Su, Adam Pauls, Emmanouil Antonios Platanios Annual Conference of the Association for Computational Linguistics (**ACL**), 2022

[30] ReasonBERT: Pre-trained to Reason with Distant Supervision

Xiang Deng, Yu Su, Alyssa Lees, You Wu, Cong Yu, and Huan Sun Conference on Empirical Methods in Natural Language Processing (**EMNLP**), 2021

[29] A Systematic Investigation of KB-Text Embedding Alignment at Scale

Vardaan Pahuja⁺, Yu Gu⁺, Wenhu Chen, Mehdi Bahrami, Lei Liu, Wei-Peng Chen, and Yu Su *Annual Conference of the Association for Computational Linguistics* (**ACL**), 2021

[28] Compositional Generalization for Neural Semantic Parsing via Span-level Supervised Attention

Pengcheng Yin, Hao Fang, Graham Neubig, Adam Pauls, Emmanouil Antonios Platanios, Yu Su, Sam Thomson, and Jacob Andreas

Annual Conference of the North American Chapter of the Association for Computational Linguistics - Human Language Technologies (NAACL-HLT), short paper, 2021

[27] Beyond I.I.D.: Three Levels of Generalization for Question Answering on Knowledge Bases

Yu Gu⁺, Sue Kase, Michelle Vanni, Brian Sadler, Percy Liang, Xifeng Yan, and Yu Su *The Web Conference* (**TheWebConf, previously WWW**), 2021

[26] An Imitation Game for Learning Semantic Parsers from User Interaction

Ziyu Yao, Yiqi Tang⁺, Scott Wen-tau Yih, Huan Sun, and Yu Su Conference on Empirical Methods in Natural Language Processing (**EMNLP**), 2020

[25] KGPT: Knowledge-Grounded Pre-Training for Data-to-Text Generation

Wenhu Chen, Yu Su, Xifeng Yan, and William Yang Wang Conference on Empirical Methods in Natural Language Processing (EMNLP), 2020

[24] Document Classification for COVID-19 Literature

Bernal Jiménez Gutiérrez⁺, Jucheng Zeng, Dongdong Zhang, Ping Zhang, and Yu Su *Findings of EMNLP*, short paper, 2020

[23] Logical Natural Language Generation from Open-Domain Tables

Wenhu Chen, Jianshu Chen, Yu Su, Zhiyu Chen, and William Yang Wang Annual Conference of the Association for Computational Linguistics (ACL), 2020

[22] Model-based Interactive Semantic Parsing: A Unified Formulation and A Text-to-SQL Case Study

Ziyu Yao, Yu Su, Huan Sun, and Scott Wen-tau Yih

Conference on Empirical Methods in Natural Language Processing (EMNLP), 2019

[21] HierCon: Hierarchical Organization of Technical Documents based on Concepts

Keqian Li, Shiyang Li, Semih Yavuz, Hanwen Zha, Yu Su, and Xifeng Yan *IEEE International Conference on Data Mining* (**ICDM**), 2019

Best of ICDM 2019 Selection

[20] Global Textual Relation Embedding for Relational Understanding

Zhiyu Chen, Hanwen Zha, Honglei Liu, Wenhu Chen, Xifeng Yan, and Yu Su Annual Conference of the Association for Computational Linguistics (ACL), short paper, 2019

[19] How Large A Vocabulary Does Text Classification Need? A Variational Approach on Vocabulary Selection Wenhu Chen, Yu Su, Yilin Shen, Zhiyu Chen, Xifeng Yan and William Yang Wang

Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL), 2019

[18] Learning to Compose Topic-Aware Mixture of Experts for Zero-Shot Video Captioning

Xin Wang, Jiawei Wu, Da Zhang, Yu Su, William Yang Wang AAAI Conference on Artificial Intelligence (AAAI), 2019

[17] Concept Mining via Embedding

Keqian Li, Hanwen Zha, Yu Su, Xifeng Yan IEEE International Conference on Data Mining (ICDM), 2018

[16] XL-NBT: A Cross-lingual Neural Belief Tracking Framework

Wenhu Chen, Jianshu Chen, Yu Su, Xin Wang, Dong Yu, Xifeng Yan and William Yang Wang 23th Conference on Empirical Methods in Natural Language Processing (EMNLP), 2018

[15] What It Takes to Achieve 100% Condition Accuracy on WikiSQL

Semih Yavuz, Izzeddin Gur, Yu Su, Xifeng Yan 23th Conference on Empirical Methods in Natural Language Processing (EMNLP), 2018

[14] DialSQL: Dialogue Based Structured Query Generation

Izzeddin Gur, Semih Yavuz, Yu Su, Xifeng Yan 56th Annual Meeting of the Association for Computational Linguistics (ACL), 2018 (Acceptance rate: 258/1018=25.3%)

[13] Natural Language Interfaces with Fine-Grained User Interaction: A Case Study on Web APIs

Yu Su, Ahmed H. Awadallah, Miaosen Wang, Ryen White 41st International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), 2018 (Acceptance rate: 86/409=21.0%)

[12] Global Relation Embedding for Relation Extraction

Yu Su*, Honglei Liu*, Semih Yavuz, Izzeddin Gur, Huan Sun, Xifeng Yan (*: equal contribution) 16th Annual Conference of the North American Chapter of the Association for Computational Linquistics: Human Language Technologies (NAACL-HLT), 2018

(Acceptance rate: 207/665=31.1%)

[11] Unsupervised Neural Categorization for Scientific Publications

Kegian Li, Hanwen Zha, Yu Su, Xifeng Yan 18th SIAM International Conference on Data Mining (SDM), 2018 (Acceptance rate: 87/375=23.2%)

[10] Building Natural Language Interfaces to Web APIs

Yu Su, Ahmed H. Awadallah, Patrick Pantel, Michael Gamon, Madian Khabsa, Mark Encarnacion 26th ACM International Conference on Information and Knowledge Management (CIKM), 2017 (Acceptance rate: 171/820=20.9%)

[9] Cross-domain Semantic Parsing via Paraphrasing

Yu Su, Xifeng Yan

22th Conference on Empirical Methods in Natural Language Processing (EMNLP), 2017 (Acceptance rate: 216/836=25.8%)

[8] An End-to-End Deep Framework for Answer Triggering with a Novel Group-Level Objective

Jie Zhao, Yu Su, Ziyu Guan, Huan Sun

22th Conference on Empirical Methods in Natural Language Processing (EMNLP), short paper, 2017 (Acceptance rate: 107/582=18.4%)

[7] Recovering Question Answering Errors via Query Revision

Semih Yavuz, Izzeddin Gur, Yu Su, Xifeng Yan 22th Conference on Empirical Methods in Natural Language Processing (EMNLP), short paper, 2017 (Acceptance rate: 107/582=18.4%)

[6] On Generating Characteristic-rich Question Sets for QA Evaluation

Yu Su, Huan Sun, Brian Sadler, Mudhakar Srivatsa, Izzeddin Gur, Zenghui Yan, Xifeng Yan 21th Conference on Empirical Methods in Natural Language Processing (EMNLP), 2016 (Acceptance rate: 177/687=25.8%)

[5] Improving Semantic Parsing via Answer Type Inference

Semih Yavuz, Izzeddin Gur, Yu Su, Mudhakar Srivatsa, Xifeng Yan 21th Conference on Empirical Methods in Natural Language Processing (EMNLP), 2016 (Acceptance rate: 177/687=25.8%)

[4] A Fast Kernel for Attributed Graphs

Yu Su, Fangqiu Han, Richard E. Harang, Xifeng Yan 16th SIAM International Conference on Data Mining (**SDM**), 2016 (Acceptance rate: 96/371=25.9%)

[3] Table Cell Search for Question Answering

Huan Sun, Hao Ma, Xiaodong He, Wen-Tau Yih, Yu Su, Xifeng Yan 25th International Conference on World Wide Web (**WWW**), 2016 (Acceptance rate: 115/727=15.8%)

[2] Visual Graph Query Formulation and Exploration: A New Perspective on Information Retrieval at the Edge

Sue Kase, Michelle Vanni, Joanne Knight, Yu Su, Xifeng Yan SPIE 9851, Next-Generation Analyst IV (SPIE Defense+Security), 2016

[1] Exploiting Relevance Feedback in Knowledge Graph Search

Yu Su, Shengqi Yang, Huan Sun, Mudhakar Srivatsa, Sue Kase, Michelle Vanni, Xifeng Yan 21th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (**KDD**), 2015 (Acceptance rate: 160/819=19.5%)

REFEREED WORKSHOP PAPERS

[4] Error Detection for Interactive Text-to-SQL Semantic Parsing

Shijie Chen⁺, Ziru Chen, Huan Sun, Yu Su InterNLP Workshop at NeurIPS, 2022

[3] Understanding Mimicry in Butterflies from Images using Machine Learning

Reshma R Babu, Yael Stochel, Christopher Lawrence, Daniel Rubenstein, Chuck Stewart, Wei-Lun Chao, David Carlyn, Jihyung Kil, Yu Su, Luke Song⁺, Anuj Karpatne, Mohannad Elhamod, Krzysztof Kozak, Owen McMillan, Tanya Berger-Wolf

CV4Animals Workshop at CVPR, 2022

[2] An Investigation of Language Model Interpretability via Sentence Editing

Samuel Stevens⁺ and Yu Su BlackboxNLP Workshop at EMNLP, 2021

[1] On the Validity of Geosocial Mobility Traces

Zengbin Zhang, Lin Zhou, Xiaohan Zhao, Gang Wang, Yu Su, Miriam Metzger, Haitao Zheng, and Ben Y. Zhao *12th ACM Workshop on Hot Topics in Networks* (**HotNets**), 2013 (Acceptance rate: 26/110=23.6%)

CONFERENCE TUTORIALS

[2] Scalable Construction and Querying of Massive Knowledge Bases

Xiang Ren, Yu Su, Pedro Szekely, Xifeng Yan *The Web Conference* (**TheWebConf**), 2018

[1] Construction and Querying of Large-Scale Knowledge Bases

Xiang Ren, Yu Su, Xifeng Yan 26th ACM International Conference on Information and Knowledge Management (CIKM), 2017

PATENTS

[2] Natural Language to API Conversion (co-inventor)

US Patent Pending 15/919,209

A framework for building interactive natural language interface to web APIs.

[1] Natural Language Interface to Web API (co-inventor)

US Patent Granted 10496452B2

A framework for building natural language interface to web API via crowdsourcing with a hierarchical probabilistic model and optimization algorithm for crowdsourcing.

Students_

PHD STUDENTS

- Yu Gu (SP20): semantic parsing and grounded language understanding
- Vardaan Pahuja (SP20): knowledge-based reasoning with graph neural networks
- Bernal Jiménez Gutiérrez (SP20): natural language processing for biomedicine
- Chan Hee (Luke) Song (AU20): grounded language understanding for embodied AI
- Samuel Stevens (AU21): (multimodal) foundation models
- Shijie Chen (AU21 , co-advised with Huan Sun): semantic parsing
- Kai Zhang (AU22): low-resource information extraction with foundation models
- Jiaman (Lisa) Wu (AU22 , co-advised with Wei-Lun Chao): grounded language understanding for embodied AI

MASTER STUDENTS

• Jason Xu (AU22 -)

Undergraduate Students

- Clay Washington (OSU CIS; 2021): Publication at Findings of EMNLP'22. Submission to CVPR'23.
- Nikolas McNeal (OSU CIS; 2021): Publication at Findings of EMNLP'22.
- Alison Zhong (OSU CSE; 2022)
- Sparsh Kustagishettar (OSU CSE; 2022)
- Samuel Stevens (OSU CSE; 2020 2021): Publication at BlackboxNLP'22. Placement: PhD at OSU.

HIGH SCHOOL STUDENTS

• Evan Huang (2021 summer): Submission to AMIA 2022 Annual Symposium High School Scholars program

GRADUATE DISSERTATION/THESIS COMMITTEE MEMBER

- Hong You Chen (CSE PhD): "New Aspects in Deep Federated Learning Towards Matching the Centralized Performance"
- Xiang Deng (CSE PhD): "Al-powered Data System: Unified Semantic Layer and Natural Language Interface"
- Arpan Jain (CSE PhD): "Novel Parallelization Strategies for High-Performance DNN Training on HPC Systems"
- Zichen Zhang (CSE PhD): "Design of Unmanned Aerial Systems for Precision Agriculture using Machine Learning Techniques"
- Zhen Wang (CSE PhD): "Knowledge-Centric Natural Language Processing: Acquisition, Representation and Reasoning"
- Saumya Sahai (CSE MS): "A Study on Informal Fallacies in Online Discussions"
- Ziyu Yao (CSE PhD): "On Advancing Natural Language Interfaces: Data Collection, Model Development, and User Interaction"
- Md Muntasir Zitu (BMI PhD): "Identification of Adverse Drug Events from clinical free texts of Electronic Health Records (EHR) data using Natural Language Processing"
- Jie Zhao (CSE PhD): "Towards Building Trustworthy Automatic Question Answering Systems"
- Semih Cayci (ECE PhD): "Online Learning for Optimal Control of Communication and Computing Systems"
- Adam Stiff (CSE PhD): "Mitigation of Data Scarcity Issues for Semantic Classification in a Virtual Patient Dialogue Agent"

Professional Service

ORGANIZING COMMITTEE

• Workflow Co-Chair, SIGKDD 2023.

- Faculty Advisor to Student Research Workshop, NAACL 2021.
- First Workshop on Natural Language Processing for Programming, Bangkok, Thailand, 2021 (co-located with ACL).
- First Workshop on Natural Language Interfaces (NLI), Seattle, United States, 2020 (co-located with ACL).
- First Workshop on Knowledge Base Construction, Reasoning and Mining (KBCOM), Los Angeles, United States, 2018 (co-located with WSDM).

PROGRAM COMMITTEE MEMBER/REVIEWER

- Annual Meeting of the Association for Computational Linguistics (ACL): 2017-2022 (area chair in 2022)
- Conference on Empirical Methods in Natural Language Processing (EMNLP): 2017-2022
- Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL): 2019, 2021, 2022
- ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (**KDD**): 2018-2022 (**session chair** in 2019 and 2020)
- AAAI Conference on Artificial Intelligence (AAAI): 2019, 2021, 2022 (Senior PC)
- The International World Wide Web Conference (WWW): 2018
- SIAM International Conference on Data Mining (**SDM**): 2019
- ACM International Conference on Information and Knowledge Management (CIKM): 2017
- Conference on Automated Knowledge Base Construction (AKBC): 2019, 2020, 2021
- Conference on Computational Natural Language Learning (CoNLL): 2018
- CCF Conference on Natural Language Processing and Chinese Computing (NLPCC): 2017, 2018, 2020 (area chair)
- ACL Rolling Review (ARR): 2021 present
- Transactions of the Association for Computational Linguistics (TACL): 2021 present
- IEEE Transactions on Neural Networks and Learning Systems (TNNLS): 2020 present
- IEEE Transactions on Knowledge and Data Engineering (TKDE): 2017 present

OUTREACH ACTIVITIES

- 2020-present. Faculty mentor in the Ohio State LSAMP (Louis Stokes Alliances for Minority Participation) Program.
 - Mentor female African-American undergraduate students in CSE.
- March 2018. Introduce data science and AI to high school students from Laguna Blanca School, Santa Barbara, CA.
- March 2018. "Afternoon with Academia," UCSB chapter of Society of Asian Scientists and Engineers.

UNIVERSITY SERVICE

- Faculty advisor to OSU Competitive Programming Club: 2020-present
- TDAI Fall Forum Organizing Committee: 2021
- Diversity and Inclusion Committee: 2022-2023
- Graduate Admission Committee: 2019-2022 (campus visit co-organizer in 2022)
- Space Committee: 2020-2021
- Faculty Search Committee: AI (2021-2022), Human-Centric Computing (2021-2022)

Invited Talks

- [24] Will Graphs Lead to the Next Breakthrough of Conversational AI? **University of Delaware**. November 16, 2022. Virtual.
- [23] Will Graphs Lead to the Next Breakthrough of Conversational AI?

 Workshop of Deep Learning on Graphs for Natural Language Processing@NAACL'22. July 15, 2022. Seattle,
 United States.
- [22] A New Paradigm of Conversational AI

 OSU TDAI Deep Learning Summer School. June 2, 2022. Columbus, Ohio, United States.
- [21] Emerging Frontiers of Conversational Al **JD.com, Inc**. April 28, 2022. Virtual.
- [20] Emerging Frontiers of Conversational Al **Nanjing University**. April 20, 2022. Virtual.

- [19] Emerging Frontiers of Conversational Al Institute for Interdisciplinary Information Sciences, Tsinghua University. November 2, 2021. Virtual.
- [18] Emerging Frontiers of Conversational AI **USC**. November 2, 2021. Virtual.
- [17] Emerging Frontiers of Conversational Al **Beijing Academy of Artificial Intelligence**. May 6, 2021. Beijing, China.
- [16] Task-Oriented Dialogue as Dataflow Synthesis

 Faculty-in-Focus Seminar, CSE@OSU. November 09, 2020. Columbus, OH, United States.
- [15] Towards Democratizing Data Science with Al-powered Knowledge Engines **Stanfard NLP Seminar**. February 07, 2019. Stanford, CA, United States.
- [14] Bridging the Gap between Human and Data with Al Microsoft Semantic Machines. August 13, 2018. Berkeley, CA, United States.
- [13] Bridging the Gap between Human and Data with Al **Fudan University**. July 24, 2018. Shanghai, China.
- [12] Bridging the Gap between Human and Data with Al **Tsinghua University**. June 21, 2018. Beijing, China.
- [11] Bridging the Gap between Human and Data with Al **Fujitsu Laboratories of America**. March 9, 2018. Sunnyvale, California, United States.
- [10] Bridging the Gap between Human and Data with Al **University of Massachusetts.** February 15, 2018. Amherst, Massachusetts, United States.
- [9] Bridging the Gap between Human and Data with AI **BMI@OSU**. January 26, 2018. Columbus, Ohio, United States.
- [8] Bridging the Gap between Human and Data with Al **CSE@OSU**. January 25, 2018. Columbus, Ohio, United States.
- [7] On Building Natural Language Interface to Data and Services **Toutiao Al Lab**. October 17, 2017. Beijing, China.
- [6] On Building Natural Language Interface to Data and Services **Tsinghua University**. October 16, 2017. Beijing, China.
- [5] On Building Natural Language Interface to Data and Services **Fudan University**. October 10, 2017. Shanghai, China.
- [4] Building Natural Language Interfaces to Web APIs

 Microsoft Research, MSR AI Seminar. July 25, 2017. Redmond, Washington, United States.
- [3] Learning from Zero: Recent Advances in Bootstrapping Semantic Parsers using Crowdsourcing **USC/ISI**. October 28, 2016. Los Angeles, California, United States.
- [2] Exploiting Relevance Feedback in Knowledge Graph Search IBM Research. August 15, 2015. Yorktown Heights, New York, United States.
- [1] Search over Large-scale Knowledge Graphs **UCSB**, IGERT Network Science Seminar. August 14, 2014. Santa Barbara, California, United States.