Yonatan Bisk

Alumni

PhD Hao Zhu

Assistant Professor of Computer Science

 $GHC~6703 \\ \boxtimes ybisk@cs.cmu.edu \\ he/him$

	Positions					
2020 –	Assistant Professor Language Technologies Robotics Institute (cour	Institute	Mellon University			
	Previous					
2022 –	Visiting Professor N	leta Fund	damental AI Research (FAI	IR) w/ Dhruv Batra & Ro	ozbeh N	<i>Mottaghi</i>
2021 -	Consulting Professo	r Micros	oft Research			
2019 –	Visiting Researcher	Microso	ft Research	1	w/ Jianf	eng Gao
2017 –	Postdoctoral Schola University of Washington		n Institute for Artificial Intell	igence	w/ Y	ejin Choi
2015 –	Postdoctoral Schola					
	Information Sciences In	stitute, U	niversity of Southern Californ	nia	w/ Dani	el Marcu
	Education					
2015	PhD in Computer Science The University of Illinois at Urbana-Champaign, Thesis: Unsupervised Grammar Induction with Combinatory Categorial Grammars Advisor: Julia Hockenmaier Committee: Jason Eisner, Dan Roth, ChengXiang Zhai					
2009	BS in Computer Science The University of Texas at Austin Turing Scholar, Thesis: The Necessity of Separating Control and Logic When Grounding Language using Neuroevolution Advisor: Risto Miikkulainen Second Reader: Raymond Mooney					
	PhD Students			TalkingTo	Robot	ts.com
PhD	Jared Fernandez	he/him	Efficiency	(co-E Strubell)	LTI	2020 –
PhD	Vidhi Jain		Multimodal Task Specific	,	RI	2021 -
PhD	Tiffany Min		Instruction Following	(co-R Salakhutdinov)	MLD	2021 -
PhD	Yingshan Chang		Multimodal Reasoning	,	LTI	2022 –
PhD	Abitha Thankaraj	she/her	LMs & Reasoning		CSD	2024 -
PhD	Jimin Sun	she/her	Tools		LTI	2024 -
PhD	Rosa Vitiello	she/her	Collaboration	(co-C Rose)	LTI	2024 -
PhD	Quanting Xie	he/him	Manipulation, LLMs,		RI	2024 -
PhD	Leena Mathur	she/her	Social Robotics	(co-LP Morency)	LTI	2024 –
	Masters					
MSR	Jacob Thompson	he/him	Generalist Agents		RI	2024
5th	Sheryl Mathew	she/her	Collaboration		SCS	2024

he/him Theory of Mind

(co-G Neubig)

LTI

2019 - 2024

MS MLT MLT MLT MS	Quanting Xie Jimin Sun Yingshan Chang Josh Zhanson Xiaoyu (Erin) Zhang	she/her she/her he/him	LLMs for Robota Embodied Dialog Multimodal Reas Embodied Visua Collaborative Ro	gue soning I Reps	(co-O Kroemer)	LTI 202 LTI 202	2023 22 - 2023 20 - 2022 20 - 2022 21 - 2022
	Interns and Und	ergra	duates				
Ugrad	Claire Jin	she/her	Embodied Dialog	gue			2024
Ugrad	Maria Yampolsky	she/her	Audio				2024
Intern	Minyoung Hwang	•	Preference Learn	ning			2024
Ugrad	Xiang Fan		Transformer Effi	_	(co-E Strubell)		2022
Intern	Andy Liu		Theory-of-Mind	,	(co-G Neubig)		2022
Intern	Deogratias Amani		Grounding		(0)		2022
Ugrad	Feiyu (Gavin) Zhu		Video Summariz	ation	(co-C Paxton)		2021
Intern	Melanie Sclar	,	Symmetric Theo		,		2021
Intern	Blessing Bassey		TextVQA	,	(0)		2021
_	Capstones						
MCDS	VR Robot Teleop Sophia Huang	Jensen	(Yi-Che) Huang	Ti	anyi Cheng		2024
MSAII	Seed emergence						2024
	Harini Subramanyan		Juanyun Mai	-	ra Morbale		
	Karthik Natarajan		Noel D Souza		o Zhang		
MRSD	Assistive Robotics for Abhinav Gupta	r Elder	•	Atharva	Ducalkar	1 . /1	2023
	Praveen Venkatesh		he/him he/him	Shaolin k		he/him he/him	
	Shivam Tripathy		he/him	0		,	
MRSD	Modular Teleop with	Auton	omy (*co-Z Eri	ckson)			2022
	Jashkumar Diyora		he/him		angopadhyay	she/her	
	Jigar Patel		he/him	Prakhar	Pradeep	he/him	
MCDS	Shivani Sivakumar Embodied Navigatio	n and I	she/her				2022
WICDS	Adhokshaja Madhwara		he/him	Kushagra	a Mahajan	he/him	2022
	Sai Vishwas Padigi	•	he/him	Vineeth		he/him	
	Malaika Vijay	. —	she/her	Zheng (J	lessica) Zhong	she/her	
MCDS	Embodied Dialogue	and To		Nilleil C.			2022
	Xinyue Chen Benny Jiang		she/her he/him	Nikhil Gı Shubhan		he/him he/him	
	Prasoon Varshney		he/him	Silubilali	i i iiai	ne/mm	
MCDS	Novel Concept Learn Bharani Ujjaini Kempa	_	she/her	Linyi Li		she/her	2022
MSAII	Visual Patent Search	1					2022
	Suchong Dong		she/her	Zhiyuan		he/him	
	Mansi Goyal Sreenidhi Sundaram		she/her		endez Simon 1 Den Berghe	she/her	
	Sieemum Sundaram		she/her	reon var	i Deli Delglie	he/him	
_	Journal Publicat	ions					
1	MotIF: Motion Instr		Fine-tuning				2024

Minyoung Hwang, Joey Hejna, Dorsa Sadigh, Yonatan Bisk IEEE Robotics and Automation Letters

2	Training Vision-Language Transformers from Captions Liangke Gui, Yingshan Chang, Qiuyuan Huang, Subhojit Som, Alexander Hauptmann, Jianfeng Gao, Yonatan Bisk	2023
	Transactions on Machine Learning Research	
3	The Return of Lexical Dependencies: Neural Lexicalized PCFGs Hao Zhu, Yonatan Bisk, Graham Neubig	2020
	Transactions of the Association for Computational Linguistics	
4	An HDP Model for Inducing Combinatory Categorial Grammars Yonatan Bisk, Julia Hockenmaier	2013
	Transactions of the Association for Computational Linguistics	
	Conference Publications	
5	Explore Theory-of-Mind: Program-Guided Adversarial Data Generation for Theory of Mind Reasoning	2024
	Melanie Sclar, Jane Yu, Maryam Fazel-Zarandi, Yulia Tsvetkov, <u>Yonatan Bisk</u> , Yejin Choi, Asli Celikyilmaz	
	The Thirteenth International Conference on Learning Representations	
6	ANAVI: Audio Noise Awareness using Visuals of Indoor environments for NAVIgation	2024
	Vidhi Jain, Rishi Veerapaneni, <u>Yonatan Bisk</u> Conference on Robot Learning	
7	Situated Instruction Following	2024
	So Yeon Min, Xavi Puig, Devendra Singh Chaplot, Tsung-Yen Yang, Akshara Rai, Priyam Parashar, Ruslan Salakhutdinov, <u>Yonatan Bisk</u> , Roozbeh Mottaghi	
	European Conference on Computer Vision	
8	Gradient Localization Improves Lifelong Pretraining of Language Models Jared Fernandez, Yonatan Bisk, Emma Strubell	2024
	Findings of the Conference on Empirical Methods in Natural Language Processing	
9	How to Train Your Fact Verifier: Knowledge Transfer with Multimodal Open Models Jaeyoung Lee, Ximing Lu, Jack Hessel, Faeze Brahman, Youngjae Yu, Yonatan Bisk, Yejin Choi,	2024
	Saadia Gabriel	
	Findings of the Conference on Empirical Methods in Natural Language Processing	2024
10	Tools Fail: Detecting Silent Errors in Faulty Tools Jimin Sun, So Yeon Min, Yingshan Chang, Yonatan Bisk	2024
	Conference on Empirical Methods in Natural Language Processing	
11	Language Models Need Inductive Biases to Count Inductively	2024
11	Yingshan Chang, Yonatan Bisk	2024
	The Thirteenth International Conference on Learning Representations	
12	DiffusionPID: Interpreting Diffusion via Partial Information Decomposition Shaurya Dewan, Rushikesh Zawar, Prakanshul Saxena, Yingshan Chang, Andrew Luo, Yonatan Bisk	2024
	Thirty-Eighth Annual Conference on Neural Information Processing Systems	
13	VISREAS: Complex Visual Reasoning with Unanswerable Questions Syeda Nahida Akter, Sangwu Lee, Yingshan Chang, Yonatan Bisk, Eric Nyberg	2024
	Findings of the 62nd Annual Meeting of the Association for Computational Linguistics	
14	AgentKit: Flow Engineering with Graphs, not Coding Yue Wu, Yewen Fan, So Yeon Min, Shrimai Prabhumoye, Stephen McAleer, Yonatan Bisk, Ruslan Salakhutdinov, Yuanzhi Li, Tom Mitchell	2024
	Conference on Language Modeling	
15	Skews in the Phenomenon Space Hinder Generalization in Text-to-Image Generation	2024
	Yingshan Chang, Yasi Zhang, Zhiyuan Fang, Yingnian Wu, Yonatan Bisk, Feng Gao European Conference on Computer Vision	

16	Vid2Robot: End-to-end Video-conditioned Policy Learning with Cross-Attention	2024
	Transformers Vidhi Jain, Maria Attarian, Nikhil J Joshi, Ayzaan Wahid, Danny Driess, Quan Vuong, Pannag R Sanketi, Pierre Sermanet, Stefan Welker, Christine Chan, Igor Gilitschenski, <u>Yonatan Bisk</u> , Debidatta Dwibedi	
	Robotics: Science and Systems	
17	SOTOPIA- π : Interactive Learning of Socially Intelligent Language Agents Ruiyi Wang, Haofei Yu, Wenxin Zhang, Zhengyang Qi, Maarten Sap, Graham Neubig, Yonatan Bisk, Hao Zhu	2024
	The 62nd Annual Meeting of the Association for Computational Linguistics	
18	OpenEQA: Embodied Question Answering in the Era of Foundation Models Arjun Majumdar, Anurag Ajay, Xiaohan Zhang, Pranav Putta, Sriram Yenamandra, Mikael Henaff, Sneha Silwal, Paul Mcvay, Oleksandr Maksymets, Sergio Arnaud, Karmesh Yadav, Qiyang Li, Ben Newman, Mohit Sharma, Vincent Berges, Shiqi Zhang, Pulkit Agrawal, Yonatan Bisk, Dhruv Batra, Mrinal Kalakrishnan, Franziska Meier, Chris Paxton, Sasha Sax, Aravind Rajeswaran	2024
	Conference on Computer Vision and Pattern Recognition	
19	SOTOPIA: Interactive Evaluation for Social Intelligence in Language Agents Xuhui Zhou, Hao Zhu, Leena Mathur, Ruohong Zhang, Haofei Yu, Zhengyang Qi, Louis-Philippe Morency, Yonatan Bisk, Daniel Fried, Graham Neubig, Maarten Sap The Twelfth International Conference on Learning Representations (Spotlight)	2024

2024

2024

Open X-Embodiment: Robotic Learning Datasets and RT-X Models: Open X-Embodiment Collaboration

Abby O'Neill, Abdul Rehman, Abhiram Maddukuri, Abhishek Gupta, Abhishek Padalkar, Abraham Lee, Acorn Pooley, Agrim Gupta, Ajay Mandlekar, Ajinkya Jain, Albert Tung, Alex Bewley, Alex Herzog, Alex Irpan, Alexander Khazatsky, Anant Rai, Anchit Gupta, Andrew Wang, Anikait Singh, Animesh Garg, Aniruddha Kembhavi, Annie Xie, Anthony Brohan, Antonin Raffin, Archit Sharma, Arefeh Yavary, Arhan Jain, Ashwin Balakrishna, Ayzaan Wahid, Ben Burgess-Limerick, Beomjoon Kim, Bernhard Schölkopf, Blake Wulfe, Brian Ichter, Cewu Lu, Charles Xu, Charlotte Le, Chelsea Finn, Chen Wang, Chenfeng Xu, Cheng Chi, Chenguang Huang, Christine Chan, Christopher Agia, Chuer Pan, Chuyuan Fu, Coline Devin, Danfei Xu, Daniel Morton, Danny Driess, Daphne Chen, Deepak Pathak, Dhruv Shah, Dieter Büchler, Dinesh Jayaraman, Dmitry Kalashnikov, Dorsa Sadigh, Edward Johns, Ethan Foster, Fangchen Liu, Federico Ceola, Fei Xia, Feiyu Zhao, Freek Stulp, Gaoyue Zhou, Gaurav S. Sukhatme, Gautam Salhotra, Ge Yan, Gilbert Feng, Giulio Schiavi, Glen Berseth, Gregory Kahn, Guanzhi Wang, Hao Su, Hao-Shu Fang, Haochen Shi, Henghui Bao, Heni Ben Amor, Henrik I Christensen, Hiroki Furuta, Homer Walke, Hongjie Fang, Huy Ha, Igor Mordatch, Ilija Radosavovic, Isabel Leal, Jacky Liang, Jad Abou-Chakra, Jaehyung Kim, Jaimyn Drake, Jan Peters, Jan Schneider, Jasmine Hsu, Jeannette Bohg, Jeffrey Bingham, Jeffrey Wu, Jensen Gao, Jiaheng Hu, Jiajun Wu, Jialin Wu, Jiankai Sun, Jianlan Luo, Jiayuan Gu, Jie Tan, Jihoon Oh, Jimmy Wu, Jingpei Lu, Jingyun Yang, Jitendra Malik, João Silvério, Joey Hejna, Jonathan Booher, Jonathan Tompson, Jonathan Yang, Jordi Salvador, Joseph J. Lim, Junhyek Han, Kaiyuan Wang, Kanishka Rao, Karl Pertsch, Karol Hausman, Keegan Go, Keerthana Gopalakrishnan, Ken Goldberg, Kendra Byrne, Kenneth Oslund, Kento Kawaharazuka, Kevin Black, Kevin Lin, Kevin Zhang, Kiana Ehsani, Kiran Lekkala, Kirsty Ellis, Krishan Rana, Krishnan Srinivasan, Kuan Fang, Kunal Pratap Singh, Kuo-Hao Zeng, Kyle Hatch, Kyle Hsu, Laurent Itti, Lawrence Yunliang Chen, Lerrel Pinto, Li Fei-Fei, Liam Tan, Linxi Jim Fan, Lionel Ott, Lisa Lee, Luca Weihs, Magnum Chen, Marion Lepert, Marius Memmel, Masayoshi Tomizuka, Masha Itkina, Mateo Guaman Castro, Max Spero, Maximilian Du, Michael Ahn, Michael C. Yip, Mingtong Zhang, Mingyu Ding, Minho Heo, Mohan Kumar Srirama, Mohit Sharma, Moo Jin Kim, Naoaki Kanazawa, Nicklas Hansen, Nicolas Heess, Nikhil J Joshi, Niko Suenderhauf, Ning Liu, Norman Di Palo, Nur Muhammad MahiShafiullah, Oier Mees, Oliver Kroemer, Osbert Bastani, Pannag R Sanketi, Patrick Tree Miller, Patrick Yin, Paul Wohlhart, Peng Xu, Peter David Fagan, Peter Mitrano, Pierre Sermanet, Pieter Abbeel, Priya Sundaresan, Qiuyu Chen, Quan Vuong, Rafael Rafailov, Ran Tian, Ria Doshi, Roberto Martín-Martín, Rohan Baijal, Rosario Scalise, Rose Hendrix, Roy Lin, Runjia Qian, Ruohan Zhang, Russell Mendonca, Rutav Shah, Ryan Hoque, Ryan Julian, Samuel Bustamante, Sean Kirmani, Sergey Levine, Shan Lin, Sherry Moore, Shikhar Bahl, Shivin Dass, Shubham Sonawani, Shuran Song, Sichun Xu, Siddhant Haldar, Siddharth Karamcheti, Simeon Adebola, Simon Guist, Soroush Nasiriany, Stefan Schaal, Stefan Welker, Stephen Tian, Subramanian Ramamoorthy, Sudeep Dasari, Suneel Belkhale, Sungjae Park, Suraj Nair, Suvir Mirchandani, Takayuki Osa, Tanmay Gupta, Tatsuya Harada, Tatsuya Matsushima, Ted Xiao, Thomas Kollar, Tianhe Yu, Tianli Ding, Todor Davchev, Tony Z. Zhao, Travis Armstrong, Trevor Darrell, Trinity Chung, Vidhi Jain, Vincent Vanhoucke, Wei Zhan, Wenxuan Zhou, Wolfram Burgard, Xi Chen, Xiaolong Wang, Xinghao Zhu, Xinyang Geng, Xiyuan Liu, Xu Liangwei, Xuanlin Li, Yao Lu, Yecheng Jason Ma, Yejin Kim, Yevgen Chebotar, Yifan Zhou, Yifeng Zhu, Yilin Wu, Ying Xu, Yixuan Wang, Yonatan Bisk, Yoonyoung Cho, Youngwoon Lee, Yuchen Cui, Yue Cao, Yueh-Hua Wu, Yujin Tang, Yuke Zhu, Yunchu Zhang, Yunfan Jiang, Yunshuang Li, Yunzhu Li, Yusuke Iwasawa, Yutaka Matsuo, Zehan Ma, Zhuo Xu, Zichen Jeff Cui, Zichen Zhang, Zipeng Lin IEEE International Conference on Robotics and Automation (ICRA)

21 MOSAIC: Learning Unified Multi-Sensory Object Property Representations for Robot Perception

Gyan Tatiya, Jonathan Francis, Ho-Hsiang Wu, <u>Yonatan Bisk</u>, Jivko Sinapov *IEEE International Conference on Robotics and Automation*

- WebArena: A Realistic Web Environment for Building Autonomous Agents Shuyan Zhou, Frank F. Xu, Hao Zhu, Xuhui Zhou, Robert Lo, Abishek Sridhar, Xianyi Cheng, Tianyue Ou, Yonatan Bisk, Daniel Fried, Uri Alon, Graham Neubig The Twelfth International Conference on Learning Representations
- 23 Spatial-Language Attention Policies for Efficient Robot Learning
 Priyam Parashar, Vidhi Jain, Xiaohan Zhang, Jay Vakil, Sam Powers, Yonatan Bisk, Chris
 Paxton
 2023

Conference on Robot Learning

24	SPAE: Semantic Pyramid AutoEncoder for Multimodal Generation with Frozen LLMs	2023
	Lijun Yu, Yong Cheng, Zhiruo Wang, Vivek Kumar, Wolfgang Macherey, Yanping Huang, David A. Ross, Irfan Essa, <u>Yonatan Bisk</u> , Ming-Hsuan Yang, Kevin Murphy, Alexander Hauptmann, Lu Jiang	
	Thirty-seventh Conference on Neural Information Processing Systems	
25	HomeRobot: Open-Vocabulary Mobile Manipulation Sriram Yenamandra, Arun Ramachandran, Karmesh Yadav, Austin Wang, Mukul Khanna, Theophile Gervet, Tsung-Yen Yang, Vidhi Jain, Alexander William Clegg, John Turner, Zsolt Kira, Manolis Savva, Angel Chang, Devendra Singh Chaplot, Dhruv Batra, Roozbeh Mottaghi, Yonatan Bisk, Chris Paxton Conference on Robot Learning	2023
26	SPRING: GPT-4 Out-performs RL Algorithms by Studying Papers and Reasoning	2023
	Yue Wu, Shrimai Prabhumoye, So Yeon Min, <u>Yonatan Bisk</u> , Ruslan Salakhutdinov, Amos Azaria, Tom Mitchell, Yuanzhi Li	
	Thirty-seventh Conference on Neural Information Processing Systems	
27	Towards Open-World Mobile Manipulation in Homes: Lessons from the Neurips 2023 HomeRobot Open Vocabulary Mobile Manipulation Challenge Sriram Yenamandra, Arun Ramachandran, Mukul Khanna, Karmesh Yadav, Jay Vakil, Andrew Melnik, Michael Büttner, Leon Harz, Lyon Brown, Gora Chand Nandi, Arjun PS, Gaurav Kumar Yadav, Rahul Kala, Robert Haschke, Yang Luo, Jinxin Zhu, Yansen Han, Bingyi Lu, Xuan Gu, Qinyuan Liu, Yaping Zhao, Qiting Ye, Chenxiao Dou, Yansong Chua, Volodymyr Kuzma, Vladyslav Humennyy, Ruslan Partsey, Jonathan Francis, Devendra Singh Chaplot, Gunjan Chhablani, Alexander Clegg, Theophile Gervet, Vidhi Jain, Ram Ramrakhya, Andrew Szot, Austin Wang, Tsung-Yen Yang, Aaron Edsinger, Charlie Kemp, Binit Shah, Zsolt Kira, Dhruv Batra, Roozbeh Mottaghi, Yonatan Bisk, Chris Paxton	2023
	Thirty-seventh Conference on Neural Information Processing Systems: Competition Track	
28	EXCALIBUR: Encouraging and Evaluating Embodied Exploration Hao Zhu, Raghav Kapoor, So Yeon Min, Winson Han, Jiatai Li, Kaiwen Geng, Graham Neubig, Yonatan Bisk, Aniruddha Kembhavi, Luca Weihs Conference on Computer Vision and Pattern Recognition	2023
29	The Framework Tax: Disparities Between Inference Efficiency in Research and	2023
29	Deployment Jared Fernandez, Jacob Kahn, Clara Na, <u>Yonatan Bisk</u> , Emma Strubell	2020
	The 2023 Conference on Empirical Methods in Natural Language Processing (Oral)	
30	Computational Language Acquisition with Theory of Mind Andy Liu, Hao Zhu, Emmy Liu, Yonatan Bisk, Graham Neubig The Eleventh International Conference on Learning Representations	2023
31	Self-Supervised Object Goal Navigation with In-Situ Finetuning So Yeon Min, Yao-Hung Hubert Tsai, Wei Ding, Ali Farhadi, Ruslan Salakhutdinov, Yonatan Bisk, Jian Zhang IEEE/RSJ International Conference on Intelligent Robots and Systems	2023
32	Don't Copy the Teacher: Data and Model Challenges in Embodied Dialogue So Yeon Min, Hao Zhu, Ruslan Salakhutdinov, Yonatan Bisk	2022
	Conference on Empirical Methods in Natural Language Processing	
33	EvEntS ReaLM: Event Reasoning of Entity States via Language Models Evangelia Spiliopoulou, Artidoro Pagnoni, <u>Yonatan Bisk</u> , Eduard Hovy Conference on Empirical Methods in Natural Language Processing	2022
34	On Advances in Text Generation from Images Beyond Captioning: A Case Study	2022
	in Self-Rationalization Shruti Palaskar, Akshita Bhagia, Yonatan Bisk, Florian Metze, Alan W Black, Ana Marasovic Findings of the Conference on Empirical Methods in Natural Language Processing	
25		2022
35	Transformers are Adaptable Task Planners Vidhi Jain, Yixin Lin, Eric Undersander, Yonatan Bisk, Akshara Rai Conference on Robot Learning	2022

36	Symmetric Machine Theory of Mind Melanie Sclar, Graham Neubig, Yonatan Bisk 39th International Conference on Machine Learning	2022
37	A Framework for Learning to Request Rich and Contextually Useful Information from Humans Khanh Nguyen, Yonatan Bisk, Hal Daume III 39th International Conference on Machine Learning,	2022
38	Simulated Language Learning from Communicative Goals and Linguistic Input Hao Zhu, Yonatan Bisk, Graham Neubig Annual Meeting of the Cognitive Science Society (Oral)	2022
39	HEAR 2021: Holistic Evaluation of Audio Representations Joseph Turian, Jordie Shier, Humair Raj Khan, Bhiksha Raj, Björn W. Schuller, Christian J. Steinmetz, Colin Malloy, George Tzanetakis, Gissel Velarde, Kirk McNally, Max Henry, Nicolas Pinto, Camille Noufi, Christian Clough, Dorien Herremans, Eduardo Fonseca, Jesse Engel, Justin Salamon, Philippe Esling, Pranay Manocha, Shinji Watanabe, Zeyu Jin, Yonatan Bisk Proceedings of Machine Learning Research (PMLR): NeurIPS 2021 Competition Track	2022
40	KAT: A Knowledge Augmented Transformer for Vision-and-Language Liangke Gui, Borui Wang, Qiuyuan Huang, Alexander Hauptmann, Yonatan Bisk, Jianfeng Gao Annual Conference of the North American Chapter of the Association for Computational Linguistics (Oral)	2022
41	FILM: Following Instructions in Language with Modular Methods So Yeon Min, Devendra Singh Chaplot, Pradeep Ravikumar, <u>Yonatan Bisk</u> , Ruslan Salakhutdinov	2022
42	The Tenth International Conference on Learning Representations WebQA: Multihop and Multimodal QA Yingshan Chang, Mridu Narang, Hisami Suzuki, Guihong Cao, Jianfeng Gao, Yonatan Bisk Conference on Computer Vision and Pattern Recognition (Oral)	2022
43	Dependency Induction Through the Lens of Visual Perception Ruisi Su, Shruti Rijhwani, Hao Zhu, Junxian He, Xinyu Wang, Yonatan Bisk, Graham Neubig The SIGNLL Conference on Computational Natural Language Learning	2021
44	Language Grounding with 3D Objects Jesse Thomason, Mohit Shridhar, Yonatan Bisk, Chris Paxton, Luke Zettlemoyer Conference on Robot Learning	2021
45	TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment Jianwei Yang, Yonatan Bisk, Jianfeng Gao International Conference on Computer Vision	2021
46	Few-shot Language Coordination by Modeling Theory of Mind Hao Zhu, Graham Neubig, Yonatan Bisk The Thirty-eighth International Conference on Machine Learning	2021
47	Grounding 'Grounding' in NLP Khyathi Raghavi Chandu, Yonatan Bisk, Alan W Black Findings of The 2021 Conference of the Association for Computational Linguistics	2021
48	An Empirical Study on the Generalization Power of Neural Representations Learned via Visual Guessing Games Alessandro Suglia, Yonatan Bisk, Ioannis Konstas, Antonio Vergari, Emanuele Bastianelli, Andrea Vanzo, Oliver Lemon The 2021 Conference of the European Chapter of the Association for Computational	2021
49	Linguistics (Oral) Knowledge-driven Data Construction for Zero-shot Evaluation in Commonsense Question Answering Kaixin Ma, Filip Ilievski, Jonathan Francis, Yonatan Bisk, Eric Nyberg, Alessandro Oltramari	2021
50	35th AAAI Conference on Artificial Intelligence ALFWorld: Aligning Text and Embodied Environments for Interactive Learning Mohit Shridhar, Xingdi Yuan, Marc-Alexandre Côté, Yonatan Bisk, Adam Trischler, Matthew Hausknecht International Conference on Learning Representations	2021

51	Imagining Grounded Conceptual Representations from Perceptual Information in Situated Guessing Games Alessandro Suglia, Antonio Vergari, Ioannis Konstas, <u>Yonatan Bisk</u> , Emanuele Bastianelli, Andrea Vanzo, Oliver Lemon	2020
	The 28th International Conference on Computational Linguistics (Oral)	
52	Experience Grounds Language Yonatan Bisk, Ari Holtzman, Jesse Thomason, Jacob Andreas, Yoshua Bengio, Joyce Chai, Mirella Lapata, Angeliki Lazaridou, Jonathan May, Aleksandr Nisnevich, Nicolas Pinto, Joseph Turian	2020
	Conference on Empirical Methods in Natural Language Processing (Oral)	
53	RMM: A Recursive Mental Model for Dialog Navigation Homero Roman Roman, Yonatan Bisk, Jesse Thomason, Asli Celikyilmaz, Jianfeng Gao	2020
	Conference on Empirical Methods in Natural Language Processing: Findings	
54	ALFRED: A Benchmark for Interpreting Grounded Instructions for Everyday Tasks Mohit Shridhar, Jesse Thomason, Daniel Gordon, Yonatan Bisk, Winson Han, Roozbeh Mottaghi, Luke Zettlemoyer, Dieter Fox	2020
	The IEEE Conference on Computer Vision and Pattern Recognition (CVPR)	
55	PIQA: Reasoning about Physical Commonsense in Natural Language Yonatan Bisk, Rowan Zellers, Ronan Le Bras, Jianfeng Gao, Yejin Choi Thirty-Fourth AAAI Conference on Artificial Intelligence (Oral)	2020
56	Robust Navigation with Language Pretraining and Stochastic Sampling Xiujun Li, Chunyuan Li, Qiaolin Xia, Yonatan Bisk, Asli Celikyilmaz, Jianfeng Gao, Noah A. Smith, Yejin Choi	2019
57	Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing Defending Against Neural Fake News Rowan Zellers, Ari Holtzman, Hannah Rashkin, Yonatan Bisk, Ali Farhadi, Franziska Roesner, Yejin Choi	2019
	Thirty-third Conference on Neural Information Processing Systems	
58	Improving Robot Success Detection using Static Object Data Rosario Scalise, Jesse Thomason, Yonatan Bisk, Siddhartha Srinivasa IEEE/RSJ International Conference on Intelligent Robots and Systems	2019
59	Early Fusion for Goal Directed Robotic Vision Aaron Walsman, <u>Yonatan Bisk</u> , Saadia Gabriel, Dipendra Misra, Yoav Artzi, Yejin Choi, Dieter Fox	2019
	2019 IEEE/RSJ International Conference on Intelligent Robots and Systems - RoboCup Best Paper Award finalist	
60	HellaSwag: Can a Machine Really Finish Your Sentence? Rowan Zellers, Ari Holtzman, Yonatan Bisk, Ali Farhadi, Yejin Choi Association for Computational Linguistics	2019
61	From Recognition to Cognition: Visual Commonsense Reasoning Rowan Zellers, Yonatan Bisk, Ali Farhadi, Yejin Choi	2019
	The IEEE Conference on Computer Vision and Pattern Recognition (Oral)	
62	Tactical Rewind: Self-Correction via Backtracking in Vision-and-Language Navigation Liyiming Ke, Xiujun Li, Yonatan Bisk, Ari Holtzman, Zhe Gan, Jingjing Liu, Jianfeng Gao, Yejin Choi, Siddhartha Srinivasa The IEEE Conference on Computer Vision and Pattern Recognition (Oral)	2019
62	- , , ,	2010
63	Prospection: Interpretable Plans From Language By Predicting the Future Chris Paxton, Yonatan Bisk, Jesse Thomason, Arunkumar Byravan, Dieter Fox International Conference on Robotics and Automation (ICRA)	2019
64	Shifting the Baseline: Single Modality Performance on Visual Navigation & QA Jesse Thomason, Daniel Gordon, Yonatan Bisk	2019
	Annual Conference of the North American Chapter of the Association for Computational Linguistics	

65	Benchmarking Hierarchical Script Knowledge Yonatan Bisk, Jan Buys, Karl Pichotta, Yejin Choi	2019
	Annual Conference of the North American Chapter of the Association for Computational Linguistics (Oral)	
66	Character-based Surprisal as a Model of Reading Difficulty in the Presence of Errors	2019
	Michael Hahn, Frank Keller, <u>Yonatan Bisk</u> , Yonatan Belinkov The 41st Annual Meeting of the Cognitive Science Society (Oral)	
67	SWAG: A Large-Scale Adversarial Dataset for Grounded Commonsense Inference Rowan Zellers, Yonatan Bisk, Roy Schwartz, Yejin Choi	2018
	Conference on Empirical Methods in Natural Language Processing (Oral)	
68	Synthetic and Natural Noise Both Break Neural Machine Translation Yonatan Belinkov, Yonatan Bisk	2018
	6th International Conference on Learning Representations (Oral)	
69	Learning Interpretable Spatial Operations in a Rich 3D Blocks World Yonatan Bisk, Kevin Shih, Yejin Choi, Daniel Marcu	2018
	Thirty-Second Conference on Artificial Intelligence (AAAI-18)	
70	Natural Language Inference from Multiple Premises Alice Lai, Yonatan Bisk, Julia Hockenmaier	2017
	Eighth International Joint Conference on Natural Language Processing (Oral)	
71	Natural Language Communication with Robots Yonatan Bisk, Deniz Yuret, Daniel Marcu 15th Annual Conference of the North American Chapter of the Association for	2016
	Computational Linguistics (Oral)	
72	Supertagging with LSTMs Ashish Vaswani, Yonatan Bisk, Kenji Sagae, Ryan Musa	2016
	15th Annual Conference of the North American Chapter of the Association for	
73	Computational Linguistics (Short Papers) (Oral) Evaluating Induced CCG Parsers on Grounded Semantic Parsing Yonatan Bisk, Siva Reddy, John Blitzer, Julia Hockenmaier, Mark Steedman	2016
	2016 Conference on Empirical Methods in Natural Language Processing	
74	Probing the Linguistic Strengths and Limitations of Unsupervised Grammar Induction	2015
	Yonatan Bisk, Julia Hockenmaier	
	53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing (Volume 1: Long Papers) (Oral)	
75	Labeled Grammar Induction with Minimal Supervision	2015
	Yonatan Bisk, Christos Christodoulopoulos, Julia Hockenmaier	2010
	53rd Annual Meeting of the Association for Computational Linguistics and the 7th	
	International Joint Conference on Natural Language Processing (Volume 2: Short Papers)	
76	Simple Robust Grammar Induction with Combinatory Categorial Grammar Yonatan Bisk, Julia Hockenmaier Transfer Sinth Conference on Artificial Intelligence (AAAI 12)	2012
	Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)	2012
77	Document-Topic Hierarchies from Document Graphs Tim Weninger, Yonatan Bisk, Jiawei Han	2012
	21st ACM international conference on Information and knowledge management (CIKM 2012)	
78	Normal-form parsing for CCGs with generalized composition and type-raising Julia Hockenmaier, Yonatan Bisk	2010
	23rd International Conference on Computational Linguistics (Coling 2010)	
	Workshop Publications	
79	MAEA: Multimodal Attribution for Embodied Al	2022
	Vidhi Jain, Jayant Sravan Tamarapalli, Sahiti Yerramilli, <u>Yonatan Bisk</u> Progress and Challenges in Building Trustworthy Embodied AI at NeurIPS 2022	

80	Tackling AlfWorld with Action Attention and Common Sense from Language Models Yue Wu, So Yeon Min, Yonatan Bisk, Ruslan Salakhutdinov, Shrimai Prabhumoye	2022
	Language and Reinforcement Learning Workshop at NeurIPS 2022	
81	Worst of Both Worlds: Biases Compound in Pre-trained Vision-and-Language Models Tejas Srinivasan, Yonatan Bisk	2022
	4th Workshop on Gender Bias in Natural Language Processing	
82	KB-VLP: Knowledge Based Vision and Language Pretraining Kezhen Chen, Qiuyuan Huang, Yonatan Bisk, Daniel McDuff, Jianfeng Gao ICML21 Workshop on Self-Supervised Learning	2021
83	A Benchmark for Structured Procedural Knowledge Extraction from Cooking	2020
	Videos Frank F. Xu, Lei Ji, Botian Shi, Junyi Du, Graham Neubig, <u>Yonatan Bisk</u> , Nan Duan	
	Workshop on NLP Beyond Text	2010
84	Inducing Grammars with and for Neural Machine Translation Ke Tran, Yonatan Bisk 2nd Workshop on Neural Machine Translation (Best Paper)	2018
85	Bridging HMMs and RNNs through Architectural Transformations	2018
00	Jan Buys, <u>Yonatan Bisk</u> , Yejin Choi	2016
	32nd Conference on Neural Information Processing Systems (NIPS 2018), IRASL workshop	
86	Towards a Dataset for Human Computer Communication via Grounded Language Acquisition	2016
	Yonatan Bisk, Daniel Marcu, William Wong	
	AAAI 2016 Workshop on Symbiotic Cognitive Systems	
87	Unsupervised Neural Hidden Markov Models Ke Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu, Kevin Knight Workshop on Structured Prediction for NLP (Oral)	2016
88	Induction of Linguistic Structure with Combinatory Categorial Grammars Yonatan Bisk, Julia Hockenmaier	2012
	NAACL HLT Workshop on Induction of Linguistic Structure	
	Preprint Publications	
89	Hardware Scaling Trends and Diminishing Returns in Large-Scale Distributed Training	2024
	Jared Fernandez, Luca Wehrstedt, Leonid Shamis, Mostafa Elhoushi, Kalyan Saladi, Yonatan Bisk, Emma Strubell, Jacob Kahn ArXiv	
90	Embodied-RAG: General non-parametric Embodied Memory for Retrieval and	2024
	Generation Quanting Xie, So Yeon Min, Tianyi Zhang, Aarav Bajaj, Ruslan Salakhutdinov, Matthew Johnson-Roberson, Yonatan Bisk	
	ArXiv	
91	DegustaBot: Zero-Shot Visual Preference Estimation for Personalized Multi-Object Rearrangement Benjamin A. Newman, Pranay Gupta, Kris Kitani, Yonatan Bisk, Henny Admoni, Chris Paxton ArXiv	2024
92	Dialogue with Robots: Proposals for Broadening Participation and Research in the SLIVAR Community Casey Kennington, Malihe Alikhani, Heather Pon-Barry, Katherine Atwell, Yonatan Bisk, Daniel Fried, Felix Gervits, Zhao Han, Mert Inan, Michael Johnston, Raj Korpan, Diane Litman, Matthew Marge, Cynthia Matuszek, Ross Mead, Shiwali Mohan, Raymond Mooney, Natalie Parde, Jivko Sinapov, Angela Stewart, Matthew Stone, Stefanie Tellex, Tom Williams ArXiv	2024

93	Direct Preference Optimization of Video Large Language Model Reward Ruohong Zhang, Liangke Gui, Zhiqing Sun, Yihao Fer Chunyuan Li, Alexander Hauptmann, Yonatan Bisk, YarXiv	ng, Keyang Xu, Yuanhan Zhang, Di Fu,	2024
94	Toward General-Purpose Robots via Foundati Meta-Analysis Yafei Hu, Quanting Xie, Vidhi Jain, Jonathan Francis Kim, Yaqi Xie, Tianyi Zhang, Shibo Zhao, Yu Quan Q Johnson-Roberson, Dhruv Batra, Xiaolong Wang, Seb Yonatan Bisk ArXiv	, Jay Patrikar, Nikhil Keetha, Seungchan Chong, Chen Wang, Katia Sycara, Matthew	2023
95	Reasoning about the Unseen for Efficient Our Quanting Xie, Tianyi Zhang, Kedi Xu, Matthew John <i>ArXiv</i>		2023
96	Plan, Eliminate, and Track – Language Mode Agents Yue Wu, So Yeon Min, <u>Yonatan Bisk</u> , Ruslan Salakhu Mitchell, Shrimai Prabhumoye ArXiv		2023
97	Retrospectives on the Embodied Al Worksho Matt Deitke, Dhruv Batra, Yonatan Bisk, Tommaso C Singh Chaplot, Changan Chen, Claudia Pérez D'Arpir Anthony Francis, Chuang Gan, Kristen Grauman, Dav Aniruddha Kembhavi, Jacob Krantz, Stefan Lee, Chen Maksymets, Roberto Martín-Martín, Roozbeh Mottag Silvio Savarese, Manolis Savva, Mohit Shridhar, Niko Joshua B. Tenenbaum, Jesse Thomason, Alexander T Wu ArXiv	Campari, Angel X. Chang, Devendra no, Kiana Ehsani, Ali Farhadi, Li Fei-Fei, vid Hall, Winson Han, Unnat Jain, ngshu Li, Sagnik Majumder, Oleksandr hi, Sonia Raychaudhuri, Mike Roberts, Sünderhauf, Andrew Szot, Ben Talbot,	2022
98	Multi-View Learning for Vision-and-Language Qiaolin Xia, Xiujun Li, Chunyuan Li, Yonatan Bisk, Z A. Smith <i>ArXiv</i>		2020
99	FIND: Identifying Functionally and Structural Sequences with Deep Neural Networks Ranjani Murali, James Hemp, Victoria Orphan, Yonat bioRxiv		2019
100	Balancing Shared Autonomy with Human-Ro Rosario Scalise, <u>Yonatan Bisk</u> , Maxwell Forbes, Daqin ArXiv		2018
101	CHALET: Cornell House Agent Learning Env Claudia Yan, Dipendra Misra, Andrew Bennett, Aaron ArXiv Preprint 1801.07357		2018
	Thesis Committees		
_	MSR Haochen Zhang	Wenshan Wang and Ji Zhang,	CMU
_	PhD Nikolaos Gkanatsios	Katerina Fragkiadaki,	
_	PhD Gabe Sarch	Katerina Fragkiadaki and Mike Tarr,	
_	PhD Seungchan Kim	Sebastian Scherer,	
2024	PhD Brendon Boldt PhD Xiaoyu Zhu	David Mortensen, Alex Hauptmann,	
2024	PhD Yijun Qian	Alex Hauptmann, Alex Hauptmann,	
2024	PhD Jielin Qiu	Lei Li & Christos Faloutsos,	
2024	PhD Nikita Srivatsan	Taylor Berg-Kirkpatrick,	
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2024	PhD Lijun Yu	Alex Hauptmann, CMU
2023	MSR Mateo Guaman Castro	Sebastian Scherer, CMU
2023	PhD Kaixin Ma	Eric Nyberg, CMU
2023	PhD Nicholas Botzer	Tim Weninger, Notre Dame
2023	PhD Naoki Otani	Ed Hovy, CMU
2023	PhD Dylan Ebert	Ellie Pavlick, Brown
2022	PhD Shikib Mehri	Maxine Eskenazi , CMU
2022	PhD Shruti Palaskar	Alan Black and Florian Metze, CMU
2022	PhD Evangelia Spiliopoulou	Ed Hovy, CMU
2022	PhD Dheeraj Rajagopal	Ed Hovy, CMU
2022	PhD Volkan Cirik Louis-Phil	ippe Morency and Taylor Berg-Kirkpatrick, CMU
2022	MLT Aishwarya Jadhav	Katia Sycara, CMU
2021	PhD Pengcheng Yin	Graham Neubig, CMU
2020	PhD Zihang Dai	Yiming Yang, CMU
2021	MLT Jing Wen	Katerina Fragkiadaki, CMU
2021	Qual Mohit Sharma	Oliver Kroemer, CMU
	Total	
	Teaching	
2024	11-851 Talking to Robots	# Students: 37 , FA
	11-777 MultiModal Machine Learning	Co-Daniel Fried $\#$ Students: 83 , FA
	11-777 MultiModal Machine Learning	# Students: 135, SP
2023	11-851 Talking to Robots (created)	# Students: 16 , FA
	11-767 On-Device Machine Learning	Co-Emma Strubell $\#$ Students: 69 , FA
	11-777 MultiModal Machine Learning	Co-Daniel Fried $\#$ Students: 107, SP
2022	11-767 On-Device Machine Learning	Co-Emma Strubell $\#$ Students: 42 , FA
	11-777 MultiModal Machine Learning	# Students: 94 , SP
2021	11-767 On-Device Machine Learning (co-creat	(red) Co-Emma Strubell $\#$ Students: 31, FA
	11-777 MultiModal Machine Learning	# Students: 42 , SP
	Diversity and Inclusion	
2022	NAACL 2022 DEI Co-Chair	
2021	Restructuring of LTI PhD Admissions,	2yr
2020	LTI DEI Committee,	2yrs
2019	CrashCourse AI Educational YouTube series targed Ashe. Co-Written with Lana Yarosh and Tim Wen	
2018	ACM Council on Diversity & Inclusion Investig ACM on behalf of underrepresented groups.,	ating and initiating institutional change within $1 yr$
_	Grace Hopper PC member Review submissions	to AI Technical Track, 1yr
2016	NCWIT Collegiate Award Review applications for Technology's Collegiate Award honoring college wo	or the National Center for Women & Information
2009	NCWIT Aspirations in Computing Review appli Information Technology's Award for Aspirations in	cations for the National Center for Women &
	interested in CS, UIUC, ISI	6yrs
_	Tech Junket/Women in CS Outreach for local U 2yrs	Jrbana-Champaign pre-college students, UIUC
2008	Freshman Research Mentor Mentored students	to perform research, UTexas 1yr
_	First Bytes Helped organize a summer camp for g	•

_	Co-Founded Breakfast Bytes Professor talks for pre-college students, UTexas	1yr
-	CS Roadshow CS presentations at Austin middle and high schools, UTexas	1yr
	(Senior) Area Chair / Action Editor	
2025	IEEE International Conference on Robotics and Automation (ICRA)	Robo
_	Conference on Language Modeling (COLM)	NLP
_	Robotics: Science and Systems (RSS)	Robo
_	AE: Transactions on Machine Learning Research (TMLR)	AI/ML
_	International Conference on Machine Learning (ICML)	AI/ML
2024	Conference on Robot Learning (CoRL)	Robo
_	Conference on Computer Vision and Pattern Recognition (CVPR)	CV
_	International Conference on Learning Representations (ICLR)	AI/ML
_	European Chapter of the Association for Computational Linguistics (EACL)	NLP
_	Senior AE: ACL Rolling Review (ARR)	NLP
_	AE: Transactions on Machine Learning Research (TMLR)	AI/ML
2023	Neural Information Processing Systems (NeurIPS)	AI/ML
_	International Conference on Machine Learning (ICML)	AI/ML
_	AE: Transactions on Machine Learning Research (TMLR)	AI/ML
_	Senior AE: ACL Rolling Review (ARR)	NLP
_	Ethics Co-Chair: Association for Computational Linguistics (ACL)	NLP NLP
-	Empirical Methods in Natural Language Proc (EMNLP)	
2022	International Conference on Learning Representations (ICLR) Senior MR: Association for the Advancement of Artificial Intelligence (AAAI)	AI/ML AI/ML
_	Senior AC: Empirical Methods in Natural Language Proc (EMNLP)	AI/WL NLP
_	AE: Transactions on Machine Learning Research (TMLR)	AI/ML
_	Senior AE: ACL Rolling Review (ARR)	NLP
_	Neural Information Processing Systems (NeurIPS)	AI/ML
2021	International Conference on Learning Representations (ICLR)	AI/ML
	Association for Computational Linguistics (ACL)	NLP
_	Empirical Methods in Natural Language Proc (EMNLP)	NLP
_	Neural Information Processing Systems (NeurIPS)	AI/ML
_	ACL Rolling Review (ARR)	NLP
2020	Association for Computational Linguistics (ACL)	NLP
	Neural Information Processing Systems (NeurIPS)	AI/ML
_	Asia-Pacific chapter of the Association for Computational Linguistics (AACL)	NLP
2019	Association for Computational Linguistics (ACL)	NLP
2018	International Conference on Computational Linguistics	NLP
2016	Conference on Lexical and Computational Semantics (*SEM)	NLP
	Reviewer	
NLP	ARR Association for Computational Linguistics Rolling Review	2021
	ACL Association for Computational Linguistics	2017, 2018
	CL Computational Linguistics Journal	2017 – 2022
	CoLing International Conference on Computational Linguistics	2016
	CoNLL Conference on Computational Natural Language Learning	2016 – 2018
	EACL European Chapter of the Association for Computational Linguistics	2014, 17, 20

EMNLP	Empirical Methods in Natural Language Processing	2013 – 2020
-	Best Papers Awards Committee	2024
IJCNLP	International Joint Conference on Natural Language Processing	2017
NAACL	N. American Chapter of the Association for Computational Ling	2016 – 2019
-	Best Papers Awards Committee	2025
NLE	Natural Language Engineering Journal	2016
*SEM	Joint Conference on Lexical and Computational Semantics	2020
TACL	Transactions of the Assoc. for Computational Linguistics	2019 – 2023
CoRL	Conference on Robot Learning 2	019 - 2021,2023
AURO	Autonomous Robots	2022
RSS	Robotics: Science and Systems	2022, 2024
HRI	Human Robot Interaction	2020 – 2025
ICRA	International Conference on Robotics and Automation	2019,2023 – 25
IJRR	International Journal of Robotics Research	2017
IROS	${\it IEEE/RSJ}$ International Conference on Intelligent Robots and System	ms <i>2019,23–24</i>
RA-L	IEEE Robotics and Automation Letters	2019,2023
AAAI	Association for the Advancement of Artificial Intelligence	2018, 2021
ICLR	International Conference on Learning Representations	'19 – '20,'25
ICML	International Conference on Machine Learning	2019
IJCAI	International Joint Conference on Artificial Intelligence	2019
NeurIPS	Neural Information Processing Systems	2018 - 2019
T-PAMI	Transactions on Pattern Analysis and Machine Intelligence	2023 –
CVPR	Computer Vision and Pattern Recognition	2020, 2023
	- IJCNLP NAACL - NLE *SEM TACL CORL AURO RSS HRI ICRA IJRR IROS RA-L AAAI ICLR ICML IJCAI NeurIPS T-PAMI	IJCNLP International Joint Conference on Natural Language Processing NAACL N. American Chapter of the Association for Computational Ling Best Papers Awards Committee NLE Natural Language Engineering Journal *SEM Joint Conference on Lexical and Computational Semantics TACL Transactions of the Assoc. for Computational Linguistics CoRL Conference on Robot Learning 2 AURO Autonomous Robots RSS Robotics: Science and Systems HRI Human Robot Interaction ICRA International Conference on Robotics and Automation IJRR International Journal of Robotics Research IROS IEEE/RSJ International Conference on Intelligent Robots and System RA-L IEEE Robotics and Automation Letters AAAI Association for the Advancement of Artificial Intelligence ICLR International Conference on Learning Representations ICML International Conference on Artificial Intelligence NeurIPS Neural Information Processing Systems T-PAMI Transactions on Pattern Analysis and Machine Intelligence

Organization (Workshops and Conference)

- 2022 **Workshop** *Embodied AI Workshop Challenge Organizer* Computer Vision and Pattern Recognition
- 2021 **Workshop** *Embodied Al Workshop Challenge Organizer* Computer Vision and Pattern Recognition
- 2020 **Workshop** *Embodied Vision, Actions & Language Workshop* European Conference on Computer Vision
 - Workshop Workshop on Dataset Curation and Security NeurIPS
- 2019 **Workshop** Spatial Language Understanding and Grounded communication for Robotics North American Chapter of the Association for Computational Linguistics
- 2018 Conference Social Media Chair

North American Chapter of the Association for Computational Linguistics

- Workshop Generalization in the Age of Deep Learning
 North American Chapter of the Association for Computational Linguistics
- Workshop Wordplay: Reinformcent and Language Learning in Text-Based Games NeurIPS
- 2017 **Conference** Student Scholarship Chair and Student Volunteer Coordinator Conference on Empirical Methods in Natural Language Processing
 - Workshop Language Grounding for Robotics
 Conference of the Association for Computational Linguistics

Invitations and Talks

2024 Talking to Robots University Pennsylvania

Everything Fails, Everything is Ambiguous RSS Social Intelligence Workshop

Do It Like This, and Don't Wake the Baby RSS Task Specification Workshop University of Maryland, College Park

2023 Are We Really Talking to Robots? "Dialogue with Robots" workshop, UPitt NSF Workshop Words # language Articulate Robots: Utilizing Language for Robot Learning RSS Workshop Following Instructions and Asking Questions Learning by Asking for Intelligent Robots and Agents RO-MAN Workshop

Following Instructions and Asking Questions Goal Conditioned RL Workshop @ NeurIPS

2022 Can we really connect language to robotics? CoRL Wksp on Language and Robot Learning
How machines learn language: Useful but wrong? 12th Inter. Wksp on Language Production
Following Instructions and Asking Questions Univ of Potsdam

Univ California Santa Barbara NLP

Georgia Tech NLP

Microsoft Research NYC

Penn State University

Universitat Hamburg Crossmodal Learning (CML) summer school

University of Stuttgart Institute of Natural Language Processing

University of Pittsburgh NLP

2021 Univ of Illinois at Urbana-Champaign NLP

Human Interaction for Robotic Navigation Workshop @ Inter. Conference on Computer Vision

WebQA: Multihop and Multimodal QA PNNL Mega-Al Seminar

WebQA: Multihop and Multimodal Microsoft Research Summit

2nd Workshop on Advances in Language and Vision Research (ALVR) NAACL

Instructions, Abstraction, and Theory-of-Mind Koç University Al center

Understanding the Potential of Scaling Artificial Intelligence for Science Applications Panel Pacific Northwest National Lab

Guest Lecture: Embodiment for NLP Univ of Pennsylvania

Guest Lecture: Multimodality in NLP UWashington Linguistics

2020 The 2nd Workshop Beyond Vision and Language: Integrating Real-world Knowledge CoLing

The University of Texas at Austin - Forum for Al

Cornell Learning Machines seminar

Stanford NLP seminar

SRI Center for Vision Technology Lab Panel Embodied Al

- 2018 Colloquium Talk Northwest NLP
- 2017 Invited Talk University of Notre Dame NLP Seminar

Invited Talk University of California, Irvine AI/ML Seminar

Invited Talk Pacific Northwest National Laboratory

- 2016 **Invited Poster** The Impact of Computing in Our Physical World session of the CRA's Computing Community Consortium (CCC) Symposium on Computing Research
- 2015 Colloquium Talk Toyota Tech. Inst. of Chicago's Midwest Speech & Language Days
- 2013 Colloquium Talk Toyota Tech. Inst. of Chicago's Midwest Speech & Language Days