Yonatan Bisk

Assistant Professor of Computer Science

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

	Positions	
2020 –	Assistant Professor Carnegie Mellon University Language Technologies Institute Robotics Institute (courtesy)	
	Previous	
2022 -	Visiting Professor Meta Fundamental Al Research (FAIR) w/ Dhruv Batra & Roozbe	h Mottagh
2021 -	Consulting Professor Microsoft Research	
2019 –	Visiting Researcher Microsoft Research w/ Ji	anfeng Gad
2017 –		/ Yejin Cho
2015 –	Postdoctoral Scholar Information Sciences Institute, University of Southern California w/ D	Paniel Marcı
	Education	
2015	PhD in Computer Science The University of Illinois at Urbana-Champaign, Thesis: Unsupervised Grammar Induction with Combinatory Categorial Grammar Advisor: Julia Hockenmaier Committee: Jason Eisner, Dan Roth, ChengXiang Zhai	5
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	5

	PhD Students			Talking	ToRobo	ts.com
PhD	Jared Fernandez	he/him	Efficiency	(co-Emma Strubell) LTI	2020 -
PhD	Yingshan Chang	she/her	Generalization		LTI	2022 -
PhD	Abitha Thankaraj	she/her	Planning		CSD	2024 -
PhD	Rosa Vitiello	she/her	Collaboration	(co-Carolyn Rose)	LTI	2024 -
PhD	Quanting Xie	he/him	Manipulation		RI	2024 -
PhD	Leena Mathur	she/her	Social Intelligence	(co-LP Morency)	LTI	2024 -
PhD	Haochen Zhang	she/her	Incoming		RI	2025 -
PhD	Annabella Macaluso	she/her	Incoming		RI	2025 -
PhD	Wenjie Li	she/her	Incoming		NI	2024 -
	Masters					
MSR	Jacob Thompson	he/him	Generalist Agents		RI	2024
MSR	Yash Jangir	he/him	Robust Policies		RI	2024
5th	Claire Jin	she/her	Embodied Dialogue			2024

— Alumni

	PhD							
RI	Vidhi Jain						202	1-2025,
	Lowering Barriers in Human-Robot Communication					202	1 2020,	
MLD	So Yeon Min (co-R S	alakhut	tdinov)				202	1-2025,
	Situated Instruction Fo	llowing	5					
LTI	Hao Zhu (co-G Neubi	-,	<u>-</u> .				201	9-2024,
	Artificial Social Intellig	ence: (_hallenges, Environ	iments, and	d Mechanisms			
	MS							
5th	Sheryl Mathew	she/her	Collaboration				SCS	2024
MS	Quanting Xie	he/him	LLMs for Robotic	CS .		MechE		2023
MLT	Jimin Sun	she/her	Embodied Dialog	ue		LTI	2022	- 2023
MLT	Yingshan Chang	she/her	Multimodal Reas	oning		LTI	2020	- 2022
MLT	Josh Zhanson	he/him	Embodied Visual	Reps		LTI	2020	- 2022
MS	Xiaoyu (Erin) Zhang	she/her	Collaborative Rob	oots	(co-O Kroemer)	5th	2021	- 2022
	Interns and Undergrade		Dahat Lasuria					2024
Ugrad	Su Li		Robot Learning					2024
Ugrad	Maria Yampolsky	,	Audio	·				2024
Intern	Minyoung Hwang		Preference Learni	_	(an E Struball)			2024
Ugrad	Xiang Fan		Transformer Effic	iency	(co-E Strubell)			2022 2022
Intern	Andy Liu		Theory-of-Mind		(co-G Neubig)			2022
Intern	Deogratias Amani Feiyu (Gavin) Zhu		Grounding Video Summariza	tion	(co-C Paxton)			2022
Ugrad Intern	Melanie Sclar		Symmetric Theor		(co-C Paxton) (co-G Neubig)			2021
Intern	Blessing Bassey		TextVQA	y-01-1VIIIIu	(co-g Neubig)			2021
intern	Diessing Dassey	sne/ner	TEXTVQA					2021
	Capstones							
MCDS	VR Robot Teleop							2024
	Sophia Huang	Jenser	n (Yi-Che) Huang	Ti	anyi Cheng			
MSAII	Seed emergence							2024
	Harini Subramanyan Karthik Natarajan		Juanyun Mai Noel D Souza		a Morbale o Zhang			
MRSD	Assistive Robotics fo	r Elder			J Zilalig			2023
	Abhinav Gupta		he/him	Atĥarva I	Pusalkar	he	e/him	
	Praveen Venkatesh		he/him	Shaolin k	Kataria	he	e/him	
MDCD	Shivam Tripathy	Auton	he/him	lean)				2022
MRSD	Modular Teleop with Jashkumar Diyora	Autor	he/him	,	angopadhyay	sł	ne/her	2022
	Jigar Patel		he/him	Prakhar l			e/him	
	Shivani Sivakumar		she/her		<i>,</i>			
MCDS	Embodied Navigation			IZl	. Mahaia			2022
	Adhokshaja Madhwara Sai Vishwas Padigi	J	he/him	Vineeth I	a Mahajan Reddy		e/him	
	Malaika Vijay		he/him she/her		essica) Zhong		e/him ne/her	
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MCDS	Embodied Dialogue and ToM Xinyue Chen Benny Jiang Prasoon Varshney	she/her he/him he/him	Nikhil Gupta Shubham Phal	he/him he/him	2022
MCDS	Novel Concept Learning Bharani Ujjaini Kempaiah	she/her	Linyi Li	she/her	2022
MSAII	Visual Patent Search Suchong Dong Mansi Goyal Sreenidhi Sundaram	she/her she/her she/her	Zhiyuan Guo Marta Mendez Simon Leon Van Den Berghe	he/him she/her he/him	2022
	Journal Publications				
1	Efficient Hardware Scaling and Language Models Jared Fernandez, Luca Wehrstedt, I Yonatan Bisk, Emma Strubell, Jaco Transactions on Machine Learning	Leonid Shamis, N bb Kahn	_		2025
2	MotIF: Motion Instruction Fir Minyoung Hwang, Joey Hejna, Dor IEEE Robotics and Automation Let	ne-tuning sa Sadigh, <u>Yonat</u>	an Bisk		2025
3	Training Vision-Language Trail Liangke Gui, Yingshan Chang, Qiuy Gao, <u>Yonatan Bisk</u> Transactions on Machine Learning	uan Huang, Subl		ann, Jianfeng	2023
4	The Return of Lexical Depend Hao Zhu, Yonatan Bisk, Graham N Transactions of the Association for	dencies: Neura eubig			2020
5	An HDP Model for Inducing Combinatory Categorial Grammars Yonatan Bisk, Julia Hockenmaier Transactions of the Association for Computational Linguistics				
	Conference Publications	S			
6	REM: Evaluating LLM Emboor Trajectories Jacob Thompson, Emiliano Garcia- Second Conference on Language M	Lopez, <u>Yonatan E</u>		ame	2025
7	Position: You Can't Manufact Ani Kimmel, Mueed Ur Rehman, You Forty-second International Conferen	onatan Bisk, Gar			2025
8	Casper: Inferring Diverse Inte Language Models Huihan Liu, Rutav Shah, Shuijing L Roberto Martín-Martín, Yuke Zhu Conference on Robot Learning	nts for Assistiv	ve Teleoperation with Visi		2025
9	Energy Considerations of Larg Optimizations Jared Fernandez, Clara Na, Vashist The 63rd Annual Meeting of the As	h Tiwari, <u>Yonata</u>	n <u>Bisk,</u> Sasha Luccioni, Emma		2025
10	Re-thinking Temporal Search Jinhui Ye, Zihan Wang, Haosen Sur Eyzaguirre, <u>Yonatan Bisk</u> , Juan Car The IEEE/CVF Conference on Com	for Long-Form n, Keshigeyan Ch rlos Niebles, Ehsa	Video Understanding andrasegaran, Zane Durante, n Adeli, Li Fei-Fei, Jiajun Wu,		2025

11	Explore Theory-of-Mind: Program-Guided Adversarial Data Generation for	2025
	Theory of Mind Reasoning Melanie Sclar, Jane Yu, Maryam Fazel-Zarandi, Yulia Tsvetkov, Yonatan Bisk, Yejin Choi, Asli Celikyilmaz	
	The Thirteenth International Conference on Learning Representations	
12	ANAVI: Audio Noise Awareness using Visuals of Indoor environments for NAVIgation Vidhi Jain, Rishi Veerapaneni, Yonatan Bisk Conference on Robot Learning	2024
13	Situated Instruction Following So Yeon Min, Xavi Puig, Devendra Singh Chaplot, Tsung-Yen Yang, Akshara Rai, Priyam Parashar, Ruslan Salakhutdinov, <u>Yonatan Bisk</u> , Roozbeh Mottaghi <i>European Conference on Computer Vision</i>	2024
14	Gradient Localization Improves Lifelong Pretraining of Language Models Jared Fernandez, Yonatan Bisk, Emma Strubell Findings of the Conference on Empirical Methods in Natural Language Processing	2024
15	How to Train Your Fact Verifier: Knowledge Transfer with Multimodal Open	2024
	Models Jaeyoung Lee, Ximing Lu, Jack Hessel, Faeze Brahman, Youngjae Yu, Yonatan Bisk, Yejin Choi, Saadia Gabriel	
16	Findings of the Conference on Empirical Methods in Natural Language Processing	2024
16	Tools Fail: Detecting Silent Errors in Faulty Tools Jimin Sun, So Yeon Min, Yingshan Chang, Yonatan Bisk Conference on Empirical Methods in Natural Language Processing	2024
17	Language Models Need Inductive Biases to Count Inductively	2025
11	Yingshan Chang, Yonatan Bisk The Thirteenth International Conference on Learning Representations	2020
18	DiffusionPID: Interpreting Diffusion via Partial Information Decomposition Shaurya Dewan, Rushikesh Zawar, Prakanshul Saxena, Yingshan Chang, Andrew Luo, Yonatan Bisk Thirty-Eighth Annual Conference on Neural Information Processing Systems	2024
19	VISREAS: Complex Visual Reasoning with Unanswerable Questions Syeda Nahida Akter, Sangwu Lee, Yingshan Chang, Yonatan Bisk, Eric Nyberg Findings of the 62nd Annual Meeting of the Association for Computational Linguistics	2024
20	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	
21	Skews in the Phenomenon Space Hinder Generalization in Text-to-Image Generation Yingshan Chang, Yasi Zhang, Zhiyuan Fang, Yingnian Wu, Yonatan Bisk, Feng Gao European Conference on Computer Vision	2024
22	Direct Preference Optimization of Video Large Multimodal Models from Language Model Reward Ruohong Zhang, Liangke Gui, Zhiqing Sun, Yihao Feng, Keyang Xu, Yuanhan Zhang, Di Fu, Chunyuan Li, Alexander Hauptmann, Yonatan Bisk, Yiming Yang Annual Conference of the Nations of the Americas Chapter of the ACL	2025
23	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	
24	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	

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

Conference on Computer Vision and Pattern Recognition

26 **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)

27 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)

2024

2024

2024

28	MOSAIC: Learning Unified Multi-Sensory Object Property Representations for Robot Perception	2024
	Gyan Tatiya, Jonathan Francis, Ho-Hsiang Wu, <u>Yonatan Bisk</u> , Jivko Sinapov IEEE International Conference on Robotics and Automation	
29	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	2024
30	Spatial-Language Attention Policies for Efficient Robot Learning Priyam Parashar, Vidhi Jain, Xiaohan Zhang, Jay Vakil, Sam Powers, Yonatan Bisk, Chris Paxton Conference on Robot Learning	2023
31	SPAE: Semantic Pyramid AutoEncoder for Multimodal Generation with Frozen LLMs Lijun Yu, Yong Cheng, Zhiruo Wang, Vivek Kumar, Wolfgang Macherey, Yanping Huang, David A. Ross, Irfan Essa, Yonatan Bisk, Ming-Hsuan Yang, Kevin Murphy, Alexander Hauptmann, Lu Jiang Thirty-seventh Conference on Neural Information Processing Systems	2023
32	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
33	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	
34	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
35	Thirty-seventh Conference on Neural Information Processing Systems: Competition Track 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
36	The Framework Tax: Disparities Between Inference Efficiency in Research and Deployment Jared Fernandez, Jacob Kahn, Clara Na, Yonatan Bisk, Emma Strubell The 2023 Conference on Empirical Methods in Natural Language Processing (Oral)	2023
37	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
38	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
39	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	

40	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
41	On Advances in Text Generation from Images Beyond Captioning: A Case Study in Self-Rationalization Shruti Palaskar, Akshita Bhagia, Yonatan Bisk, Florian Metze, Alan W Black, Ana Marasovic	2022
	Findings of the Conference on Empirical Methods in Natural Language Processing	
42	Transformers are Adaptable Task Planners Vidhi Jain, Yixin Lin, Eric Undersander, Yonatan Bisk, Akshara Rai Conference on Robot Learning	2022
43	Symmetric Machine Theory of Mind Melanie Sclar, Graham Neubig, Yonatan Bisk 39th International Conference on Machine Learning	2022
44	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
45	Simulated Language Learning from Communicative Goals and Linguistic Input Hao Zhu, Yonatan Bisk, Graham Neubig Annual Meeting of the Cognitive Science Society (Oral)	2022
46	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
47	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
48	FILM: Following Instructions in Language with Modular Methods So Yeon Min, Devendra Singh Chaplot, Pradeep Ravikumar, Yonatan Bisk, Ruslan Salakhutdinov The Tenth International Conference on Learning Representations	2022
49	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
50	Dependency Induction Through the Lens of Visual Perception Ruisi Su, Shruti Rijhwani, Hao Zhu, Junxian He, Xinyu Wang, <u>Yonatan Bisk</u> , Graham Neubig The SIGNLL Conference on Computational Natural Language Learning	2021
51	Language Grounding with 3D Objects Jesse Thomason, Mohit Shridhar, Yonatan Bisk, Chris Paxton, Luke Zettlemoyer Conference on Robot Learning	2021
52	TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment Jianwei Yang, Yonatan Bisk, Jianfeng Gao International Conference on Computer Vision	2021
53	Few-shot Language Coordination by Modeling Theory of Mind Hao Zhu, Graham Neubig, Yonatan Bisk The Thirty-eighth International Conference on Machine Learning	2021
54	Grounding 'Grounding' in NLP Khyathi Raghavi Chandu, Yonatan Bisk, Alan W Black Findings of The 2021 Conference of the Association for Computational Linguistics	2021

55	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,	2021
	Andrea Vanzo, Oliver Lemon The 2021 Conference of the European Chapter of the Association for Computational	
56	Linguistics (Oral) Knowledge-driven Data Construction for Zero-shot Evaluation in Commonsense	2021
	Question Answering Kaixin Ma, Filip Ilievski, Jonathan Francis, <u>Yonatan Bisk</u> , Eric Nyberg, Alessandro Oltramari	
	35th AAAI Conference on Artificial Intelligence	
57	ALFWorld: Aligning Text and Embodied Environments for Interactive Learning Mohit Shridhar, Xingdi Yuan, Marc-Alexandre Côté, Yonatan Bisk, Adam Trischler, Matthew Hausknecht	2021
	International Conference on Learning Representations	
58	Imagining Grounded Conceptual Representations from Perceptual Information in Situated Guessing Games	2020
	Alessandro Suglia, Antonio Vergari, Ioannis Konstas, <u>Yonatan Bisk</u> , Emanuele Bastianelli, Andrea Vanzo, Oliver Lemon	
	The 28th International Conference on Computational Linguistics (Oral)	
59	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)	
60	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	
61	ALFRED: A Benchmark for Interpreting Grounded Instructions for Everyday	2020
	Tasks Mohit Shridhar, Jesse Thomason, Daniel Gordon, <u>Yonatan Bisk</u> , Winson Han, Roozbeh Mottaghi, Luke Zettlemoyer, Dieter Fox	
	The IEEE Conference on Computer Vision and Pattern Recognition (CVPR)	
62	PIQA: Reasoning about Physical Commonsense in Natural Language Yonatan Bisk, Rowan Zellers, Ronan Le Bras, Jianfeng Gao, Yejin Choi	2020
	Thirty-Fourth AAAI Conference on Artificial Intelligence (Oral)	
63	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
	Conference on Empirical Methods in Natural Language Processing and 9th International	
64	Joint Conference on Natural Language Processing Defending Against Neural Fake News	2019
64	Rowan Zellers, Ari Holtzman, Hannah Rashkin, <u>Yonatan Bisk</u> , Ali Farhadi, Franziska Roesner, Yejin Choi	2019
	Thirty-third Conference on Neural Information Processing Systems	
65	Improving Robot Success Detection using Static Object Data Rosario Scalise, Jesse Thomason, Yonatan Bisk, Siddhartha Srinivasa	2019
	IEEE/RSJ International Conference on Intelligent Robots and Systems	
66	Early Fusion for Goal Directed Robotic Vision Aaron Walsman, Yonatan Bisk, 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	
67	HellaSwag: Can a Machine Really Finish Your Sentence? Rowan Zellers, Ari Holtzman, Yonatan Bisk, Ali Farhadi, Yejin Choi Association for Computational Linguistics	2019
68	From Recognition to Cognition: Visual Commonsense Reasoning	2019
	Rowan Zellers, Yonatan Bisk, Ali Farhadi, Yejin Choi The IEEE Conference on Computer Vision and Pattern Recognition (Oral)	

69	Tactical Rewind: Self-Correction via Backtracking in Vision-and-Language	2019
	Navigation Liyiming Ke, Xiujun Li, <u>Yonatan Bisk</u> , Ari Holtzman, Zhe Gan, Jingjing Liu, Jianfeng Gao, Yejin Choi, Siddhartha Srinivasa	
	The IEEE Conference on Computer Vision and Pattern Recognition (Oral)	
70	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
71	Shifting the Baseline: Single Modality Performance on Visual Navigation & QA Jesse Thomason, Daniel Gordon, <u>Yonatan Bisk</u> Annual Conference of the North American Chapter of the Association for Computational	2019
72	Linguistics Benchmarking Hierarchical Script Knowledge Yonatan Bisk, Jan Buys, Karl Pichotta, Yejin Choi Annual Conference of the North American Chapter of the Association for Computational Linguistics (Oral)	2019
73	Character-based Surprisal as a Model of Reading Difficulty in the Presence of Errors Michael Hahn, Frank Keller, Yonatan Bisk, Yonatan Belinkov The 41st Annual Meeting of the Cognitive Science Society (Oral)	2019
74	SWAG: A Large-Scale Adversarial Dataset for Grounded Commonsense Inference Rowan Zellers, Yonatan Bisk, Roy Schwartz, Yejin Choi Conference on Empirical Methods in Natural Language Processing (Oral)	2018
75	Synthetic and Natural Noise Both Break Neural Machine Translation Yonatan Belinkov, Yonatan Bisk 6th International Conference on Learning Representations (Oral)	2018
76	Learning Interpretable Spatial Operations in a Rich 3D Blocks World Yonatan Bisk, Kevin Shih, Yejin Choi, Daniel Marcu Thirty-Second Conference on Artificial Intelligence (AAAI-18)	2018
77	Natural Language Inference from Multiple Premises Alice Lai, Yonatan Bisk, Julia Hockenmaier	2017
78	Eighth International Joint Conference on Natural Language Processing (Oral) Natural Language Communication with Robots Yonatan Bisk, Deniz Yuret, Daniel Marcu 15th Annual Conference of the North American Chapter of the Association for	2016
79	Computational Linguistics (Oral) Supertagging with LSTMs Ashish Vaswani, Yonatan Bisk, Kenji Sagae, Ryan Musa 15th Annual Conference of the North American Chapter of the Association for	2016
80	Computational Linguistics (Short Papers) (Oral) Evaluating Induced CCG Parsers on Grounded Semantic Parsing Yonatan Bisk, Siva Reddy, John Blitzer, Julia Hockenmaier, Mark Steedman 2016 Conference on Empirical Methods in Natural Language Processing	2016
81	Probing the Linguistic Strengths and Limitations of Unsupervised Grammar Induction Yonatan Bisk, Julia Hockenmaier 53rd Annual Meeting of the Association for Computational Linguistics and the 7th	2015
82	International Joint Conference on Natural Language Processing (Volume 1: Long Papers) (Oral) Labeled Grammar Induction with Minimal Supervision Variety Rich Christop Christophylangular Italian Haglengrains	2015
	Yonatan Bisk, Christos Christodoulopoulos, Julia Hockenmaier 53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing (Volume 2: Short Papers)	
83	Simple Robust Grammar Induction with Combinatory Categorial Grammar Yonatan Bisk, Julia Hockenmaier Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)	2012

84	Document-Topic Hierarchies from Document Graphs Tim Weninger, Yonatan Bisk, Jiawei Han 21st ACM international conference on Information and knowledge management (CIKM)	2012
85	Normal-form parsing for CCGs with generalized composition and type-raising Julia Hockenmaier, Yonatan Bisk 23rd International Conference on Computational Linguistics (Coling 2010)	2010
	Workshop Publications	
86	MAEA: Multimodal Attribution for Embodied Al Vidhi Jain, Jayant Sravan Tamarapalli, Sahiti Yerramilli, Yonatan Bisk Progress and Challenges in Building Trustworthy Embodied AI at NeurIPS 2022	2022
87	Tackling AlfWorld with Action Attention and Common Sense from Language Models Yue Wu, So Yeon Min, Yonatan Bisk, Ruslan Salakhutdinov, Shrimai Prabhumoye Language and Reinforcement Learning Workshop at NeurIPS 2022	2022
88	Worst of Both Worlds: Biases Compound in Pre-trained Vision-and-Language Models Tejas Srinivasan, Yonatan Bisk 4th Workshop on Gender Bias in Natural Language Processing	2022
89	KB-VLP: Knowledge Based Vision and Language Processing Kezhen Chen, Qiuyuan Huang, Yonatan Bisk, Daniel McDuff, Jianfeng Gao ICML21 Workshop on Self-Supervised Learning	2021
90	A Benchmark for Structured Procedural Knowledge Extraction from Cooking Videos Frank F. Xu, Lei Ji, Botian Shi, Junyi Du, Graham Neubig, Yonatan Bisk, Nan Duan	2020
91	Workshop on NLP Beyond Text Inducing Grammars with and for Neural Machine Translation Ke Tran, Yonatan Bisk 2nd Workshop on Neural Machine Translation (Best Paper)	2018
92	Bridging HMMs and RNNs through Architectural Transformations Jan Buys, Yonatan Bisk, Yejin Choi 32nd Conference on Neural Information Processing Systems (NIPS 2018), IRASL workshop	2018
93	Towards a Dataset for Human Computer Communication via Grounded Language Acquisition Yonatan Bisk, Daniel Marcu, William Wong AAAI 2016 Workshop on Symbiotic Cognitive Systems	2016
94	Unsupervised Neural Hidden Markov Models Ke Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu, Kevin Knight Workshop on Structured Prediction for NLP (Oral)	2016
95	Induction of Linguistic Structure with Combinatory Categorial Grammars Yonatan Bisk, Julia Hockenmaier NAACL HLT Workshop on Induction of Linguistic Structure	2012
	Preprint Publications	
96	Looking beyond the next token Abitha Thankaraj, Yiding Jiang, J. Zico Kolter, Yonatan Bisk ArXiv	2025
97	Model Successor Functions Yingshan Chang, Yonatan Bisk ArXiv	2025
98	Self-Regulation and Requesting Interventions So Yeon Min, Yue Wu, Jimin Sun, Max Kaufmann, Fahim Tajwar, Yonatan Bisk, Ruslan Salakhutdinov ArXiv	2025

99	Embodied-RAG: General non-parametric Embodied Memory for Retrieval and Generation Quanting Xie, So Yeon Min, Tianyi Zhang, Aarav Bajaj, Ruslan Salakhutdinov, Matthew Johnson-Roberson, Yonatan Bisk ArXiv	2024
100	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
101	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
102	Toward General-Purpose Robots via Foundation Models: A Survey and Meta-Analysis Yafei Hu, Quanting Xie, Vidhi Jain, Jonathan Francis, Jay Patrikar, Nikhil Keetha, Seungchan Kim, Yaqi Xie, Tianyi Zhang, Shibo Zhao, Yu Quan Chong, Chen Wang, Katia Sycara, Matthew Johnson-Roberson, Dhruv Batra, Xiaolong Wang, Sebastian Scherer, Zsolt Kira, Fei Xia, Yonatan Bisk ArXiv	2023
103	Reasoning about the Unseen for Efficient Outdoor Object Navigation Quanting Xie, Tianyi Zhang, Kedi Xu, Matthew Johnson-Roberson, Yonatan Bisk ArXiv	2023
104	Plan, Eliminate, and Track – Language Models are Good Teachers for Embodied Agents Yue Wu, So Yeon Min, Yonatan Bisk, Ruslan Salakhutdinov, Amos Azaria, Yuanzhi Li, Tom Mitchell, Shrimai Prabhumoye ArXiv	2023
105	Retrospectives on the Embodied Al Workshop Matt Deitke, Dhruv Batra, Yonatan Bisk, Tommaso Campari, Angel X. Chang, Devendra Singh Chaplot, Changan Chen, Claudia Pérez D'Arpino, Kiana Ehsani, Ali Farhadi, Li Fei-Fei, Anthony Francis, Chuang Gan, Kristen Grauman, David Hall, Winson Han, Unnat Jain, Aniruddha Kembhavi, Jacob Krantz, Stefan Lee, Chengshu Li, Sagnik Majumder, Oleksandr Maksymets, Roberto Martín-Martín, Roozbeh Mottaghi, Sonia Raychaudhuri, Mike Roberts, Silvio Savarese, Manolis Savva, Mohit Shridhar, Niko Sünderhauf, Andrew Szot, Ben Talbot, Joshua B. Tenenbaum, Jesse Thomason, Alexander Toshev, Joanne Truong, Luca Weihs, Jiajun Wu ArXiv	2022
106	Multi-View Learning for Vision-and-Language Navigation Qiaolin Xia, Xiujun Li, Chunyuan Li, Yonatan Bisk, Zhifang Sui, Jianfeng Gao, Yejin Choi, Noah A. Smith ArXiv	2020
107	FIND: Identifying Functionally and Structurally Important Features in Protein Sequences with Deep Neural Networks Ranjani Murali, James Hemp, Victoria Orphan, Yonatan Bisk bioRxiv	2019
108	Balancing Shared Autonomy with Human-Robot Communication Rosario Scalise, Yonatan Bisk, Maxwell Forbes, Daqing Yi, Yejin Choi, Siddhartha Srinivasa ArXiv	2018
109	CHALET: Cornell House Agent Learning Environment Claudia Yan, Dipendra Misra, Andrew Bennett, Aaron Walsman, Yonatan Bisk, Yoav Artzi ArXiv Preprint 1801.07357	2018

Thesis Committees

- AC: Robotics: Science and Systems (RSS)

	Thesis Committees	
_	PhD Huihan Liu	Yuke Zhu, UT Austin
_	PhD Mark Lee	Oliver Kroemer, CMU
_	PhD Seungchan Kim	Sebastian Scherer, CMU
_	PhD Brendon Boldt	David Mortensen, CMU
_	MSR Haochen Zhang	Wenshan Wang and Ji Zhang, CMU
2025	PhD Liangke Gui	Alex Hauptmann, CMU
2025	PhD Gabe Sarch	Katerina Fragkiadaki and Mike Tarr, CMU
2025	PhD Nikolaos Gkanatsios	Katerina Fragkiadaki, CMU
2024	PhD Xiaoyu Zhu	Alex Hauptmann, CMU
2024	PhD Yijun Qian	Alex Hauptmann, CMU
2024	PhD Jielin Qiu	Lei Li & Christos Faloutsos, CMU
2024	PhD Nikita Srivatsan	Taylor Berg-Kirkpatrick, CMU
2024	PhD Lijun Yu	Alex Hauptmann, 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
2023	MSR Mateo Guaman Castro	Sebastian Scherer, CMU
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		-Philippe Morency and Taylor Berg-Kirkpatrick, CMU
2022	MLT Aishwarya Jadhav	Katia Sycara, CMU
2021	PhD Pengcheng Yin	Graham Neubig, CMU
2021	MLT Jing Wen	Katerina Fragkiadaki, CMU
2020	PhD Zihang Dai	Yiming Yang, CMU
	Teaching	
2025	11-777 MultiModal Machine Learning	# Students: 145 , SP
2024	11-851 Talking to Robots	# Students: 37 ,FA
_	11-777 MultiModal Machine Learning w/w	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 w/E	mma Strubell # Students: 69 , FA
_	11-777 MultiModal Machine Learning w/w	Daniel Fried # Students: 107 , SP
2022	11-767 On-Device Machine Learning w/E	
_	11-777 MultiModal Machine Learning	# Students: 94 , SP
2021	11-767 On-Device Machine Learning (co-	created) w/Emma Strubell # Students: 31 , FA
_	11-777 MultiModal Machine Learning	# Students: 42 , SP
	(Senior) Area Chair / Action Ed	itor
2025	AC: IEEE International Conference on Ro	botics and Automation (ICRA) Robo
_	AC: Conference on Robot Learning (CoR	L) Robo
	AC: Pohotics: Science and Systems (RSS) Robo

Robo

_	AC: Con	ference on Language Modeling (COLM)	NLP
_	SAE: AC	L Rolling Review (ARR)	NLP
_	AC: Inte	rnational Conference on Machine Learning (ICML)	AI/ML
_	AE: Tran	sactions on Machine Learning Research (TMLR)	AI/ML
2024	AC: Con	ference on Robot Learning (CoRL)	Robo
_		ference on Computer Vision and Pattern Recognition (CVPR)	CV
_		rnational Conference on Learning Representations (ICLR)	AI/ML
_		sactions on Machine Learning Research (TMLR)	AÍ/ML
_		opean Chapter of the Association for Computational Linguistics (EACI	,
_		L Rolling Review (ARR)	, NLP
2023		ral Information Processing Systems (NeurIPS)	AI/ML
_		rnational Conference on Machine Learning (ICML)	AI/ML
_		sactions on Machine Learning Research (TMLR)	AI/ML
_		L Rolling Review (ARR)	NLP
_		o-Chair: Association for Computational Linguistics (ACL)	NLP
_		pirical Methods in Natural Language Proc (EMNLP)	NLP
2022		rnational Conference on Learning Representations (ICLR)	AI/ML
2022		ral Information Processing Systems (NeurIPS)	AI/ML
_		IR: Association for the Advancement of Artificial Intelligence (AAAI)	AI/ML AI/ML
_		esactions on Machine Learning Research (TMLR)	AI/ML AI/ML
_		pirical Methods in Natural Language Proc (EMNLP)	NLP
_		E: ACL Rolling Review (ARR)	NLP
-		- ,	
2021		rnational Conference on Learning Representations (ICLR)	AI/ML
_		ral Information Processing Systems (NeurIPS)	AI/ML
_		ociation for Computational Linguistics (ACL)	NLP
_		pirical Methods in Natural Language Proc (EMNLP)	NLP
_		Rolling Review (ARR)	NLP
2020		ociation for Computational Linguistics (ACL)	NLP
_		-Pacific chapter of the Assoc. for Computational Linguistics (AACL)	NLP
_		ral Information Processing Systems (NeurIPS)	AI/ML
2019		ociation for Computational Linguistics (ACL)	NLP
2018		rnational Conference on Computational Linguistics	NLP
2016	AC: Con	ference on Lexical and Computational Semantics (*SEM)	NLP
_	Review	er	
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
			_010

	*SEM	Joint Conference on Lexical and Computational Semantics	2020
	TACL	Transactions of the Assoc. for Computational Linguistics	2019 – 2023
Robo	CoRL	Conference on Robot Learning	2019 – 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	IEEE/RSJ International Conference on Intelligent Robots and System	ms <i>2019,23–24</i>
	RA-L	IEEE Robotics and Automation Letters	2019,2023
AI/ML	AAAI	Association for the Advancement of Artificial Intelligence	2018, 2021
	ICLR	International Conference on Learning Representations	'19 <i>– '20,'25</i>
	ICML	International Conference on Machine Learning	2019
	IJCAI	International Joint Conference on Artificial Intelligence	2019
	NeurIPS	Neural Information Processing Systems	2018 – 2019,2025
	T-PAMI	Transactions on Pattern Analysis and Machine Intelligence	2023 –
CV	CVPR	Computer Vision and Pattern Recognition	2020, 2023
	ICCV	International Conference on Computer Vision	2025

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

2025 Following Instructions and Asking Questions Army Research Lab

Why is language an embodied problem? UK Robotics Summer School Edinburgh

Planning, Reasoning, and Generalization: A title too bold for me to actually deliver on ${\sf JP}$ Morgan Al Agents Seminar

Semantics? Reasoning? Can we define either of those terms? RSS Workshop: 2nd Workshop on Semantic Reasoning and Goal Understanding in Robotics

Humans Know Things, Humans Get in the Way RSS Workshop: Continual Robot Learning from Humans

Simulating People with Language Models – Good Idea? Bad Idea? RSS Workshop: GenAI-HRI

Al: Powerful and Limited Next Gen Philanthropy

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 AI

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