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 TalkingToRobots.			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: (Lhallenges, 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 Lasusias					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		•	y-01-1VIIIIu	(co-g Neubig)			2021
intern	Blessing Bassey she/her $TextVQA$					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	
	J - J		<i>i</i> :	- 6 (9	,		,	

MCDS	Embodied Dialogue and To	М			2022
	Xinyue Chen	she/her	Nikhil Gupta	he/him	
	Benny Jiang	he/him	Shubham Phal	he/him	
	Prasoon Varshney	he/him			
MCDS	Novel Concept Learning Bharani Ujjaini Kempaiah	she/her	Linyi Li	she/her	2022
MSAII	Visual Patent Search		71.		2022
	Suchong Dong	she/her	Zhiyuan Guo	he/him	
	Mansi Goyal	she/her	Marta Mendez Simon	she/her	
	Sreenidhi Sundaram	she/her	Leon Van Den Berghe	he/him	
	Journal Publications				
1	_	and Diminishi	ng Returns in Large-Scale Tra	ining of	2025
	Language Models Jared Fernandez, Luca Wehrsted Yonatan Bisk, Emma Strubell, Ja		s, Mostafa Elhoushi, Kalyan Saladi	,	
	Transactions on Machine Learnir	ng Research			
2	MotIF: Motion Instruction Fine-tuning Minyoung Hwang, Joey Hejna, Dorsa Sadigh, Yonatan Bisk IEEE Robotics and Automation Letters				
3	Training Vision-Language Transformers from Captions Liangke Gui, Yingshan Chang, Qiuyuan Huang, Subhojit Som, Alexander Hauptmann, Jianfeng Gao, Yonatan Bisk				2023
	Transactions on Machine Learnir	ng Research			
4	The Return of Lexical Dependencies: Neural Lexicalized PCFGs Hao Zhu, Yonatan Bisk, Graham Neubig				2020
	Transactions of the Association i	for Computation	al Linguistics		
5	Yonatan Bisk, Julia Hockenmaier				2013
	Transactions of the Association i	for Computation	al Linguistics		
	Conference Publication	ons			
6	REM: Evaluating LLM Emb Trajectories Jacob Thompson, Emiliano Garc	•	Reasoning through Multi-Fra	me	2025
	Second Conference on Language	-	an bisk		
7		_	rthiness in Chemistry via Mo	dular Error	2025
•	Detection, Localization, Exp Yuyang Wu, Jinhui Ye, Shuhao Z	planation, and	I Correction	2010.	2020
	Conference on Empirical Method	-			
8	Position: You Can't Manufa	acture a NeR	F		2025
	Ani Kimmel, Mueed Ur Rehman,	Yonatan Bisk,	Gary K. Fedder		
	Forty-second International Confe	rence on Machi	ne Learning Position Paper Track		
9	Casper: Inferring Diverse In	itents for Assi	stive Teleoperation with Visio	on	2025
	Roberto Martín-Martín, Yuke Zh		enger, Mingyo Seo, Yuchen Cui, <u>Yo</u>	natan Bisk,	
	Conference on Robot Learning				
10	Optimizations		Model Inference and Efficien	-	2025
	Jared Fernandez, Clara Na, Vash The 63rd Annual Meeting of the		atan Bisk, Sasha Luccioni, Emma : Computational Linguistics	otrubell	

11	Re-thinking Temporal Search for Long-Form Video Understanding Jinhui Ye, Zihan Wang, Haosen Sun, Keshigeyan Chandrasegaran, Zane Durante, Cristobal Eyzaguirre, Yonatan Bisk, Juan Carlos Niebles, Ehsan Adeli, Li Fei-Fei, Jiajun Wu, Manling Li The IEEE/CVF Conference on Computer Vision and Pattern Recognition	2025
12	Explore Theory-of-Mind: Program-Guided Adversarial Data Generation for 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	2025
13	ANAVI: Audio Noise Awareness using Visuals of Indoor environments for	2024
10	NAVIgation Vidhi Jain, Rishi Veerapaneni, Yonatan Bisk Conference on Robot Learning	2021
14	Situated Instruction Following So Yeon Min, Xavi Puig, Devendra Singh Chaplot, Tsung-Yen Yang, Akshara Rai, Priyam Parashar, Ruslan Salakhutdinov, Yonatan Bisk, Roozbeh Mottaghi European Conference on Computer Vision	2024
15	Gradient Localization Improves Lifelong Pretraining of Language Models Jared Fernandez, Yonatan Bisk, Emma Strubell	2024
1.0	Findings of the Conference on Empirical Methods in Natural Language Processing	2024
16	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, Saadia Gabriel	2024
	Findings of the Conference on Empirical Methods in Natural Language Processing	
17	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	2025
18	Language Models Need Inductive Biases to Count Inductively Yingshan Chang, Yonatan Bisk The Thirteenth International Conference on Learning Representations	2025
19	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
20	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	
21	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 Conference on Language Modeling	2024
22	Skews in the Phenomenon Space Hinder Generalization in Text-to-Image	2024
	Generation Yingshan Chang, Yasi Zhang, Zhiyuan Fang, Yingnian Wu, Yonatan Bisk, Feng Gao European Conference on Computer Vision	
23	Direct Preference Optimization of Video Large Multimodal Models from	2025
	Language Model Reward Ruohong Zhang, Liangke Gui, Zhiqing Sun, Yihao Feng, Keyang Xu, Yuanhan Zhang, Di Fu, Chunyuan Li, Alexander Hauptmann, <u>Yonatan Bisk</u> , Yiming Yang	
	Annual Conference of the Nations of the Americas Chapter of the ACL	
24	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 <i>Robotics: Science and Systems</i>	

25	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	
26	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	
27	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)

29 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*

- 30 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
- 31 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

32	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	
33	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
34	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	
35	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	
36	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
37	The Framework Tax: Disparities Between Inference Efficiency in Research and	2023
	Deployment Jared Fernandez, Jacob Kahn, Clara Na, Yonatan Bisk, Emma Strubell The 2023 Conference on Empirical Methods in Natural Language Processing (Oral)	
38	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
39	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
40	Don't Copy the Teacher: Data and Model Challenges in Embodied Dialogue So Yeon Min, Hao Zhu, Ruslan Salakhutdinov, <u>Yonatan Bisk</u>	2022
	Conference on Empirical Methods in Natural Language Processing	
41	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
42	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
43	Findings of the Conference on Empirical Methods in Natural Language Processing Transformers are Adaptable Task Planners Vidhi Jain, Yixin Lin, Eric Undersander, Yonatan Bisk, Akshara Rai Conference on Robot Learning	2022

44	Symmetric Machine Theory of Mind Melanie Sclar, Graham Neubig, Yonatan Bisk	2022
	39th International Conference on Machine Learning	
45	A Framework for Learning to Request Rich and Contextually Useful Information from Humans Khanh Nguyen, Yonatan Bisk, Hal Daume III	2022
	39th International Conference on Machine Learning,	
46	Simulated Language Learning from Communicative Goals and Linguistic Input Hao Zhu, Yonatan Bisk, Graham Neubig	2022
	Annual Meeting of the Cognitive Science Society (Oral)	
47	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
48	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
49	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
50	WebQA: Multihop and Multimodal QA	2022
30	Yingshan Chang, Mridu Narang, Hisami Suzuki, Guihong Cao, Jianfeng Gao, Yonatan Bisk Conference on Computer Vision and Pattern Recognition (Oral)	2022
51	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
52	Language Grounding with 3D Objects Jesse Thomason, Mohit Shridhar, Yonatan Bisk, Chris Paxton, Luke Zettlemoyer Conference on Robot Learning	2021
53	TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment Jianwei Yang, Yonatan Bisk, Jianfeng Gao International Conference on Computer Vision	2021
54	Few-shot Language Coordination by Modeling Theory of Mind Hao Zhu, Graham Neubig, Yonatan Bisk The Thirty-eighth International Conference on Machine Learning	2021
55	Grounding 'Grounding' in NLP	2021
33	Khyathi Raghavi Chandu, <u>Yonatan Bisk</u> , Alan W Black Findings of The 2021 Conference of the Association for Computational Linguistics	2021
56	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	2021
57	The 2021 Conference of the European Chapter of the Association for Computational 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
	35th AAAI Conference on Artificial Intelligence	
58	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	

59	Imagining Grounded Conceptual Representations from Perceptual Information in Situated Guessing Games Alessandro Suglia, Antonio Vergari, Ioannis Konstas, Yonatan Bisk, Emanuele Bastianelli, Andrea Vanzo, Oliver Lemon	2020
	The 28th International Conference on Computational Linguistics (Oral)	
60	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 Conference on Empirical Methods in Natural Language Processing (Oral)	2020
61	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	
62	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 The 1555 Conference on Community Vision and Pattern Recognition (CVPR)	2020
63	The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 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
64	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
C.F.	Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing	2010
65	Defending Against Neural Fake News Rowan Zellers, Ari Holtzman, Hannah Rashkin, Yonatan Bisk, Ali Farhadi, Franziska Roesner, Yejin Choi Thirty-third Conference on Neural Information Processing Systems	2019
66	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	
67	Early Fusion for Goal Directed Robotic Vision Aaron Walsman, Yonatan Bisk, Saadia Gabriel, Dipendra Misra, Yoav Artzi, Yejin Choi, Dieter Fox 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems	2019
	- RoboCup Best Paper Award finalist	
68	HellaSwag: Can a Machine Really Finish Your Sentence? Rowan Zellers, Ari Holtzman, Yonatan Bisk, Ali Farhadi, Yejin Choi	2019
	Association for Computational Linguistics	
69	From Recognition to Cognition: Visual Commonsense Reasoning Rowan Zellers, Yonatan Bisk, Ali Farhadi, Yejin Choi The IEEE Conference on Computer Vision and Pattern Recognition (Oral)	2019
70	- • • • • • • • • • • • • • • • • • • •	2019
70	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
71	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
72	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	

73	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)	
74	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)	
75	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)	
76	Synthetic and Natural Noise Both Break Neural Machine Translation Yonatan Belinkov, Yonatan Bisk	2018
	6th International Conference on Learning Representations (Oral)	
77	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)	201
78	Natural Language Inference from Multiple Premises Alice Lai, Yonatan Bisk, Julia Hockenmaier	2017
	Eighth International Joint Conference on Natural Language Processing (Oral)	
79	Natural Language Communication with Robots Yonatan Bisk, Deniz Yuret, Daniel Marcu	2016
	15th Annual Conference of the North American Chapter of the Association for	
	Computational Linguistics (Oral)	
80	Supertagging with LSTMs	2016
	Ashish Vaswani, Yonatan Bisk, Kenji Sagae, Ryan Musa	
	15th Annual Conference of the North American Chapter of the Association for Computational Linguistics (Short Papers) (Oral)	
81	Evaluating Induced CCG Parsers on Grounded Semantic Parsing	2016
	Yonatan Bisk, Siva Reddy, John Blitzer, Julia Hockenmaier, Mark Steedman	
	2016 Conference on Empirical Methods in Natural Language Processing	
82	Probing the Linguistic Strengths and Limitations of Unsupervised Grammar	2015
	Induction 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)	
83	Labeled Grammar Induction with Minimal Supervision Yonatan Bisk, Christos Christodoulopoulos, Julia Hockenmaier	2015
	53rd Annual Meeting of the Association for Computational Linguistics and the 7th	
	International Joint Conference on Natural Language Processing (Volume 2: Short Papers)	
84	Simple Robust Grammar Induction with Combinatory Categorial Grammar	2012
	Yonatan Bisk, Julia Hockenmaier	
	Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)	2012
85	Document-Topic Hierarchies from Document Graphs Tim Weninger, Yonatan Bisk, Jiawei Han	2012
	21st ACM international conference on Information and knowledge management (CIKM	
	2012)	
86	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	
87	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	

88	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	
89	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
90	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
91	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 Workshop on NLP Beyond Text	2020
92	Inducing Grammars with and for Neural Machine Translation Ke Tran, Yonatan Bisk	2018
	2nd Workshop on Neural Machine Translation (Best Paper)	2010
93	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
94	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
95	Unsupervised Neural Hidden Markov Models Ke Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu, Kevin Knight Workshop on Structured Prediction for NLP (Oral)	2016
96	Induction of Linguistic Structure with Combinatory Categorial Grammars Yonatan Bisk, Julia Hockenmaier NAACL HLT Workshop on Induction of Linguistic Structure	2012
	Preprint Publications	
97	Looking beyond the next token Abitha Thankaraj, Yiding Jiang, J. Zico Kolter, Yonatan Bisk ArXiv	2025
98	Model Successor Functions Yingshan Chang, Yonatan Bisk ArXiv	2025
99	Self-Regulation and Requesting Interventions So Yeon Min, Yue Wu, Jimin Sun, Max Kaufmann, Fahim Tajwar, Yonatan Bisk, Ruslan Salakhutdinov ArXiv	2025
100	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
101	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

102	Dialogue with Robots: Proposals for Broadening Fithe SLIVAR Community Casey Kennington, Malihe Alikhani, Heather Pon-Barry, Ka Fried, Felix Gervits, Zhao Han, Mert Inan, Michael Johnsto Matthew Marge, Cynthia Matuszek, Ross Mead, Shiwali Marde, Jivko Sinapov, Angela Stewart, Matthew Stone, Ste ArXiv	therine Atwell, <u>Yonatan Bisk,</u> Daniel n, Raj Korpan, Diane Litman, ohan, Raymond Mooney, Natalie	2024
103	Toward General-Purpose Robots via Foundation Meta-Analysis Yafei Hu, Quanting Xie, Vidhi Jain, Jonathan Francis, Jay Kim, Yaqi Xie, Tianyi Zhang, Shibo Zhao, Yu Quan Chong Johnson-Roberson, Dhruv Batra, Xiaolong Wang, Sebastian Yonatan Bisk ArXiv	Patrikar, Nikhil Keetha, Seungchan , Chen Wang, Katia Sycara, Matthew	2023
104	Reasoning about the Unseen for Efficient Outdoor Quanting Xie, Tianyi Zhang, Kedi Xu, Matthew Johnson-RarXiv		2023
105	Plan, Eliminate, and Track – Language Models are Agents Yue Wu, So Yeon Min, Yonatan Bisk, Ruslan Salakhutdinov Mitchell, Shrimai Prabhumoye ArXiv		2023
106	Retrospectives on the Embodied Al Workshop Matt Deitke, Dhruv Batra, Yonatan Bisk, Tommaso Campa Singh Chaplot, Changan Chen, Claudia Pérez D'Arpino, Kia Anthony Francis, Chuang Gan, Kristen Grauman, David Ha Aniruddha Kembhavi, Jacob Krantz, Stefan Lee, Chengshu Maksymets, Roberto Martín-Martín, Roozbeh Mottaghi, So Silvio Savarese, Manolis Savva, Mohit Shridhar, Niko Sünde Joshua B. Tenenbaum, Jesse Thomason, Alexander Toshev Wu ArXiv	ana Ehsani, Ali Farhadi, Li Fei-Fei, II, Winson Han, Unnat Jain, Li, Sagnik Majumder, Oleksandr onia Raychaudhuri, Mike Roberts, erhauf, Andrew Szot, Ben Talbot,	2022
107	Multi-View Learning for Vision-and-Language Nav Qiaolin Xia, Xiujun Li, Chunyuan Li, Yonatan Bisk, Zhifang A. Smith ArXiv		2020
108	FIND: Identifying Functionally and Structurally Im Sequences with Deep Neural Networks Ranjani Murali, James Hemp, Victoria Orphan, Yonatan BibioRxiv		2019
109	Balancing Shared Autonomy with Human-Robot C Rosario Scalise, Yonatan Bisk, Maxwell Forbes, Daqing Yi, ArXiv		2018
110	CHALET: Cornell House Agent Learning Environm Claudia Yan, Dipendra Misra, Andrew Bennett, Aaron Wals ArXiv Preprint 1801.07357		2018
	Thesis Committees		
_	PhD Huihan Liu	Yuke Zhu, UT A	ustin
_	PhD Mark Lee	Oliver Kroemer, (
_	PhD Seungchan Kim	Sebastian Scherer, G	CMU
-	PhD Brendon Boldt	David Mortensen, O	CMU
_	MSR Haochen Zhang	Wenshan Wang and Ji Zhang, (CMU
2025	PhD Liangke Gui	Alex Hauptmann, O	CMU

2025 **PhD** Gabe Sarch

Katerina Fragkiadaki and Mike Tarr, CMU

2025	PhD Nikolaos Gkanatsios	Katerina Fragkiadaki, CMU		
2023	PhD Xiaoyu Zhu	Alex Hauptmann, CMU		
2024	PhD Yijun Qian			
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		ouis-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		
2021	PhD Zihang Dai	Yiming Yang, CMU		
_0_0				
	Teaching			
2025	11-777 MultiModal Machine Learning	# Students: 145 , SP		
2024	11-851 Talking to Robots	# Students: 37 , FA		
_	11-777 MultiModal Machine Learning	$w/Daniel\ Fried$ # 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	v/Emma Strubell # Students: 69 , FA		
_	11-777 MultiModal Machine Learning	$\ensuremath{\textit{w/Daniel Fried}}$ # Students: 107 , SP		
2022	11-767 On-Device Machine Learning	v/Emma Strubell # Students: 42 , FA		
_	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		
	(Carian) Ama Chain / Astion	Editor.		
	(Senior) Area Chair / Action			
2025	AC: IEEE International Conference on	` ,		
_	AC: Conference on Robot Learning (C	•		
_	AC: Robotics: Science and Systems (I	•		
_	AC: Conference on Language Modelin	- ` '		
_	SAE: ACL Rolling Review (ARR/EMN	•		
_	AC: International Conference on Macl	- • • • • • • • • • • • • • • • • • • •		
_	AE: Transactions on Machine Learning	· ,		
2024	AC: Conference on Robot Learning (C	•		
-	AC: Conference on Computer Vision a	- ,		
_	AC: International Conference on Learn	ning Representations (ICLR) AI/ML		
_	AE: Transactions on Machine Learning	g Research (TMLR) AI/ML		

_	AC: Euro	opean Chapter of the Association for Computational Linguistics (E	ACL) NLP
_	SAE: AC	CL Rolling Review (ARR)	NLP
2023	AC: Neu	ral Information Processing Systems (NeurIPS)	AI/ML
_	AC: Inte	rnational Conference on Machine Learning (ICML)	AI/ML
_	AE: Tran	nsactions on Machine Learning Research (TMLR)	AI/ML
_	SAE: AC	CL Rolling Review (ARR)	NLP
_	Ethics C	o-Chair: Association for Computational Linguistics (ACL)	NLP
_	SAC: En	npirical Methods in Natural Language Proc (EMNLP)	NLP
2022	AC: Inte	rnational Conference on Learning Representations (ICLR)	AI/ML
_	AC: Neu	ral Information Processing Systems (NeurIPS)	AI/ML
_	Senior M	1R: Association for the Advancement of Artificial Intelligence (AAA	AI) AI/ML
_	AE: Tran	nsactions on Machine Learning Research (TMLR)	AI/ML
_	SAC: En	npirical Methods in Natural Language Proc (EMNLP)	NLP
_	Senior A	E: ACL Rolling Review (ARR)	NLP
2021	AC: Inte	rnational Conference on Learning Representations (ICLR)	AI/ML
_	AC: Neu	ral Information Processing Systems (NeurIPS)	AI/ML
_	AC: Asso	ociation for Computational Linguistics (ACL)	NLP
_	AC: Emp	pirical Methods in Natural Language Proc (EMNLP)	NLP
_	AE: ACL	. Rolling Review (ARR)	NLP
2020	AC: Asso	ociation for Computational Linguistics (ACL)	NLP
_	AC: Asia	n-Pacific chapter of the Assoc. for Computational Linguistics (AAC	CL) NLP
_	AC: Neu	ral Information Processing Systems (NeurIPS)	AI/ML
2019	AC: Asso	ociation for Computational Linguistics (ACL)	NLP
2018	AC: Inte	rnational Conference on Computational Linguistics	NLP
2016	AC: Con	ference on Lexical and Computational Semantics (*SEM)	NLP
_	Review	<i>J</i> er	
		Association for Computational Linguistics Rolling Review	2021
NLP	ARR ACL	Association for Computational Linguistics Rolling Review Association for Computational Linguistics	2021 2017, 2018
	CL		2017, 2018 2017 – 2022
	CoLing	Computational Linguistics Journal International Conference on Computational Linguistics	2017 - 2022
		-	2010 2016 – 2018
	CoNLL EACL	Conference on Computational Natural Language Learning European Chapter of the Association for Computational Linguistics	2010 – 2018 2014, 17, 20
	EMNLP	Empirical Methods in Natural Language Processing	2014, 17, 20 2013 – 2020
	-	Best Papers Awards Committee	2013 – 2020
	IJCNLP	International Joint Conference on Natural Language Processing	2017
	NAACL	N. American Chapter of the Association for Computational Ling	2016 – 2019
	NAACL -	Best Papers Awards Committee	2010 2019
	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
Robo	CoRL	-	2019 – 2021,2023
1,000	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
		and the second s	

	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 – '20,'25
	ICML	International Conference on Machine Learning	2019
	IJCAI	International Joint Conference on Artificial Intelligence	2019
	NeurIPS	Neural Information Processing Systems 2	018 – 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 **Guiding and Calibrating LLMs** Apple Workshop on Human-Centered Machine Learning

Semantic Spaces and VLM limitations Stanford Vision and Learning Lab (SVL)

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 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: GenAl-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

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 Col ing

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