Yonatan Bisk

Assistant Professor of Computer Science

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

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2024

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	Positions					
2020 –	Assistant Professor Language Technologies Robotics Institute (cour	Institute	Mellon University			
	Previous					
2022 –	Visiting Professor M	eta Funda	amental Al Research (FA	AIR) w/ Dhruv Batra &	Roozbeh	Mottaghi
2021 -	Consulting Professor	r Microso	ft Research			
2019 –	Visiting Researcher	Microsoft	Research		w/ Jiar	nfeng Gao
2017 -	Postdoctoral Scholar					
	-		Institute for Artificial Inte	elligence	w/	Yejin Choi
2015 –	Postdoctoral Scholar		niversity of Southern Califo	ornia	w/Da	niel Marcu
	mornation Sciences ins	otitute, on	inversity of Southern Came	, inia	W/ Da	inci ividica
	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 Scient	ence The	University of Texas at	Austin Turing Scholar,		
	•	of Separa	ating Control and Logic	When Grounding Langua	ge using	
	Neuroevolution Advisor: Risto Miikkulai	inen	Second Reader: Raymond	I Mooney		
	Advisor. Nisto ivilikkulai	illeli	Second Reader: Raymond	Wooney		
	PhD Students			Talking	ToRobo	ots.com
PhD	Jared Fernandez	he/him	Efficiency	(co-Emma Strubell)	LTI	2020 -
PhD	Yingshan Chang		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 -

 $_{
m he/him}$ Generalist Agents

she/her Embodied Dialogue

 $_{
m he/him}$ Robust Policies

Alumni

Masters

Yash Jangir

Claire Jin

MSR MSR

5th

Jacob Thompson

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	PhD					
RI	Vidhi Jain					2021-2025,
	Lowering Barriers in Human-Robot Communication					
MLD	So Yeon Min (co-R Salakhutdinov)					2021-2025,
	Situated Instruction Following					
LTI	Hao Zhu (co-G Neub	ig)				2019-2024,
	Artificial Social Intellig	gence: Challenges, Enviror	nments, and	l 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	gue		LTI	2022 - 2023
MLT	Yingshan Chang	she/her Multimodal Reas			LTI	2020 – 2022
MLT	Josh Zhanson	he/him Embodied Visual	_		LTI	2020 - 2022
MS		she/her Collaborative Roll	•	(co-O Kroemer)	5th	2020 2022
IVIO	Alabyu (Lilli) Zilalig	sne/ner Collaborative Noi	0013	(co-o ritoeiner)	Jili	2021 – 2022
	Interns and Undergrad	luates				
Ugrad	Su Li	she/her Robot Learning				2024
Ugrad	Maria Yampolsky	she/her Audio				2024
Intern	Minyoung Hwang	she/her Preference Learn	inσ			2024
Ugrad	Xiang Fan	he/him Transformer Effic	_	(co-E Strubell)		2022
_		•	lency	,		
Intern	Andy Liu	he/him Theory-of-Mind		(co-G Neubig)		2022
Intern	Deogratias Amani	he/him Grounding		((())		2022
Ugrad	Feiyu (Gavin) Zhu	he/him Video Summariza		(co-C Paxton)		2021
Intern	Melanie Sclar	she/her Symmetric Theor	ry-of-Mind	(co-G Neubig)		2021
Intern	Blessing Bassey	she/her TextVQA				2021
	Capstones					
MCDS	VR Robot Teleop					2024
WCDS	Sophia Huang	Jensen (Yi-Che) Huang	Ti	anyi Cheng		2021
MSAII	Seed emergence	())		, , , ,		2024
11137 111	Harini Subramanyan	Juanyun Mai	Amev	a Morbale		2021
	Karthik Natarajan	Noel D Souza	-	o Zhang		
MRSD	Assistive Robotics for	or Eldercare (*co-Z Eric	kson)			2023
	Abhinav Gupta	he/him	Atharva I		he	/him
	Praveen Venkatesh	he/him	Shaolin k	(ataria	he	/him
MDCD	Shivam Tripathy	he/him	-l\			2022
MRSD	<u> </u>	n Autonomy (*co-Z Eric	,	angopadhyay	1	2022
	Jashkumar Diyora Jigar Patel	he/him he/him	Prakhar I			e/her /him
	Shivani Sivakumar	she/her	i rakilai i	Тайсер	ne	/ IIIIII
MCDS	Embodied Navigatio	,				2022
-	Adhokshaja Madhwara		Kushagra	n Mahajan	he	/him
	Sai Vishwas Padigi	he/him	Vineeth F		he	/him
	Malaika Vijay	she/her	Zheng (J	essica) Zhong	sh	e/her
MCDS	Embodied Dialogue		NULL U. C			2022
	Xinyue Chen	she/her	Nikhil Gu Shubham	•		/him
	Benny Jiang Prasoon Varshney	he/him	Silubnam	ı r IIdi	he	/him
	i rasoon varsiney	he/him				

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	Language Models	t, Leonid Shamis acob Kahn	ng Returns in Large-Scale Trai s, Mostafa Elhoushi, Kalyan Saladi,	ning of	2025
2	MotIF: Motion Instruction I Minyoung Hwang, Joey Hejna, D IEEE Robotics and Automation I	Fine-tuning Porsa Sadigh, <u>Yo</u>	natan Bisk		2025
3	Training Vision-Language T Liangke Gui, Yingshan Chang, Q Gao, <u>Yonatan Bisk</u> Transactions on Machine Learnin	iuyuan Huang, S	om Captions Subhojit Som, Alexander Hauptman	n, Jianfeng	2023
4	The Return of Lexical Depe Hao Zhu, <u>Yonatan Bisk</u> , Graham Transactions of the Association to	endencies: Ne Neubig			2020
5	An HDP Model for Inducing Yonatan Bisk, Julia Hockenmaier Transactions of the Association to	g Combinatory	Categorial Grammars		2013
	Conference Publication	ns			
6	REM: Evaluating LLM Emb Trajectories Jacob Thompson, Emiliano Garci Second Conference on Language	ia-Lopez, <u>Yonata</u>	Reasoning through Multi-Fram	ne	2025
7	Position: You Can't Manufa Ani Kimmel, Mueed Ur Rehman, Forty-second International Confe	Yonatan Bisk,	Gary K. Fedder		2025
8	Optimizations	isth Tiwari, <u>Yon</u>	Model Inference and Efficient atan Bisk, Sasha Luccioni, Emma S Computational Linguistics		2025
9	•	Sun, Keshigeyan Carlos Niebles, E	Chandrasegaran, Zane Durante, Cr hsan Adeli, Li Fei-Fei, Jiajun Wu, N		2025
10	Theory of Mind Reasoning	Fazel-Zarandi, \	A Adversarial Data Generation Yulia Tsvetkov, Yonatan Bisk, Yejin ning Representations		2025
11		ness using Vis	uals of Indoor environments fo	or	2024

12	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	2024
	European Conference on Computer Vision	
13	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	
14	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	
15	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
16	Language Models Need Inductive Biases to Count Inductively	2025
10	Yingshan Chang, Yonatan Bisk The Thirteenth International Conference on Learning Representations	2020
17	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
10		2024
18	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
19	AgentKit: Flow Engineering with Graphs, not Coding	2024
19	Yue Wu, Yewen Fan, So Yeon Min, Shrimai Prabhumoye, Stephen McAleer, <u>Yonatan Bisk</u> , Ruslan Salakhutdinov, Yuanzhi Li, Tom Mitchell	2024
	Conference on Language Modeling	
20	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	
21	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, Yonatan Bisk, Yiming Yang	
	Annual Conference of the Nations of the Americas Chapter of the ACL	
22	Vid2Robot: End-to-end Video-conditioned Policy Learning with Cross-Attention 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, Yonatan Bisk, Debidatta Dwibedi	2024
	Robotics: Science and Systems	
23	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	
24	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,	2024
	Aravind Rajeswaran	
	Conference on Computer Vision and Pattern Recognition	

25	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)

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

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

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

IEEE International Conference on Robotics and Automation (ICRA)

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

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29	Spatial-Language Attention Policies for Efficient Robot Learning Priyam Parashar, Vidhi Jain, Xiaohan Zhang, Jay Vakil, Sam Powers, <u>Yonatan Bisk</u> , Chris Paxton	2023
	Conference on Robot Learning	
30	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	2023
	Thirty-seventh Conference on Neural Information Processing Systems	
31	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
32	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	
33	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	
34	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
35	The Framework Tax: Disparities Between Inference Efficiency in Research and	2023
	Deployment Jared Fernandez, Jacob Kahn, Clara Na, <u>Yonatan Bisk</u> , Emma Strubell	
0.6	The 2023 Conference on Empirical Methods in Natural Language Processing (Oral)	0000
36	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
37	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
38	Don't Copy the Teacher: Data and Model Challenges in Embodied Dialogue So Yeon Min, Hao Zhu, Ruslan Salakhutdinov, Yonatan Bisk Conference on Empirical Methods in Natural Language Processing	2022
20		വവ
39	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
40	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	

41	Transformers are Adaptable Task Planners Vidhi Jain, Yixin Lin, Eric Undersander, Yonatan Bisk, Akshara Rai Conference on Robot Learning	2022
42	Symmetric Machine Theory of Mind Melanie Sclar, Graham Neubig, Yonatan Bisk 20th Intermediated Conference on Machine Learning	2022
40	39th International Conference on Machine Learning	0000
43	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
44	Simulated Language Learning from Communicative Goals and Linguistic Input Hao Zhu, Yonatan Bisk, Graham Neubig Annual Meeting of the Cognitive Science Society (Oral)	2022
45	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
46	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
47	FILM: Following Instructions in Language with Modular Methods So Yeon Min, Devendra Singh Chaplot, Pradeep Ravikumar, <u>Yonatan Bisk</u> , Ruslan Salakhutdinov	2022
48	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
49	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
50	Language Grounding with 3D Objects Jesse Thomason, Mohit Shridhar, Yonatan Bisk, Chris Paxton, Luke Zettlemoyer Conference on Robot Learning	2021
51	TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment Jianwei Yang, Yonatan Bisk, Jianfeng Gao International Conference on Computer Vision	2021
52	Few-shot Language Coordination by Modeling Theory of Mind Hao Zhu, Graham Neubig, Yonatan Bisk The Thirty-eighth International Conference on Machine Learning	2021
53	Grounding 'Grounding' in NLP Khyathi Raghavi Chandu, Yonatan Bisk, Alan W Black Findings of The 2021 Conference of the Association for Computational Linguistics	2021
54	An Empirical Study on the Generalization Power of Neural Representations Learned via Visual Guessing Games	2021
55	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 Linguistics (Oral) Knowledge-driven Data Construction for Zero-shot Evaluation in Commonsense	2021
	Question Answering Kaixin Ma, Filip Ilievski, Jonathan Francis, Yonatan Bisk, Eric Nyberg, Alessandro Oltramari 35th AAAI Conference on Artificial Intelligence	

56	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	
57	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 The 28th International Conference on Computational Linguistics (Oral)	2020
58	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)	
59	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	
60	ALFRED: A Benchmark for Interpreting Grounded Instructions for Everyday	2020
	Tasks Mohit Shridhar, Jesse Thomason, Daniel Gordon, Yonatan Bisk, Winson Han, Roozbeh Mottaghi, Luke Zettlemoyer, Dieter Fox The IEEE Conference on Computer Vision and Pattern Recognition (CVPR)	
61	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)	
62	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
63	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	
64	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	2010
65	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	
66	HellaSwag: Can a Machine Really Finish Your Sentence? Rowan Zellers, Ari Holtzman, Yonatan Bisk, Ali Farhadi, Yejin Choi	2019
	Association for Computational Linguistics	2010
67	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
68	Tactical Rewind: Self-Correction via Backtracking in Vision-and-Language	2019
00	Navigation Liyiming Ke, Xiujun Li, Yonatan Bisk, Ari Holtzman, Zhe Gan, Jingjing Liu, Jianfeng Gao, Yejin Choi, Siddhartha Srinivasa	2013
	The IEEE Conference on Computer Vision and Pattern Recognition (Oral)	
69	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

70	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	
71	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)	
72	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)	
73	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
74	Synthetic and Natural Noise Both Break Neural Machine Translation	2018
	Yonatan Belinkov, Yonatan Bisk 6th International Conference on Learning Representations (Oral)	
75	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)	
76	Natural Language Inference from Multiple Premises Alice Lai, Yonatan Bisk, Julia Hockenmaier	2017
	Eighth International Joint Conference on Natural Language Processing (Oral)	
77	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)	201.0
78	Supertagging with LSTMs Ashish Vaswani, Yonatan Bisk, Kenji Sagae, Ryan Musa	2016
	15th Annual Conference of the North American Chapter of the Association for Computational Linguistics (Short Papers) (Oral)	
79	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	
80	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)	
81	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	
82	International Joint Conference on Natural Language Processing (Volume 2: Short Papers) Simple Robust Grammar Induction with Combinatory Categorial Grammar	2012
02	Yonatan Bisk, Julia Hockenmaier	2012
	Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)	
83	Document-Topic Hierarchies from Document Graphs Tim Weninger, Yonatan Bisk, Jiawei Han	2012
	21st ACM international conference on Information and knowledge management (CIKM	
84	2012) Normal-form parsing for CCGs with generalized composition and type-raising Julia Hockenmaier, Yonatan Bisk	2010
	23rd International Conference on Computational Linguistics (Coling 2010)	

85	MAEA: Multimodal Attribution for Embodied AI Vidhi Jain, Jayant Sravan Tamarapalli, Sahiti Yerramilli, Yonatan Bisk Progress and Challenges in Building Trustworthy Embodied AI at NeurIPS 2022	2022
86	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	
87	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
88	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
89	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
	Workshop on NLP Beyond Text	
90	Inducing Grammars with and for Neural Machine Translation Ke Tran, Yonatan Bisk	2018
0.1	2nd Workshop on Neural Machine Translation (Best Paper)	0010
91	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
92	Towards a Dataset for Human Computer Communication via Grounded Language Acquisition Yonatan Bisk, Daniel Marcu, William Wong	2016
93	AAAI 2016 Workshop on Symbiotic Cognitive Systems Unsupervised Neural Hidden Markov Models Ke Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu, Kevin Knight Workshop on Structured Prediction for NLP (Oral)	2016
94	Induction of Linguistic Structure with Combinatory Categorial Grammars Yonatan Bisk, Julia Hockenmaier NAACL HLT Workshop on Induction of Linguistic Structure	2012
	Preprint Publications	
95	Looking beyond the next token Abitha Thankaraj, Yiding Jiang, J. Zico Kolter, Yonatan Bisk ArXiv	2025
96	Model Successor Functions Yingshan Chang, Yonatan Bisk ArXiv	2025
97	Casper: Inferring Diverse Intents for Assistive Teleoperation with Vision Language Models Huihan Liu, Rutav Shah, Shuijing Liu, Jack Pittenger, Mingyo Seo, Yuchen Cui, Yonatan Bisk, Roberto Martín-Martín, Yuke Zhu ArXiv	2025
98	Self-Regulation and Requesting Interventions So Yeon Min, Yue Wu, Jimin Sun, Max Kaufmann, Fahim Tajwar, Yonatan Bisk, Ruslan Salakhutdinov	2025
	ArXiv	202
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
	HIAIV	

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	
_	PhD Huihan Liu Yuke Zhu, U7	Γ Austin

- PhD Mark Lee

- **PhD** Gabe Sarch

PhD Nikolaos Gkanatsios

Oliver Kroemer, CMU

Katerina Fragkiadaki, CMU

Katerina Fragkiadaki and Mike Tarr, CMU

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_	David Mortensen, CN		
_	D Liangke Gui Alex Hauptmann, CM		
-	_	/ang and Ji Zhang, CMU	
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2024	PhD Yijun Qian	Alex Hauptmann, CMU	
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2024		Taylor Berg-Kirkpatrick, CMU	
2024	PhD Lijun Yu	Alex Hauptmann, CMU	
2023	PhD Kaixin Ma	Eric Nyberg, CMU	
2023		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	i Maxine Eskenazi, CMU	
2022		and Florian Metze, CMU	
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2022	PhD Dheeraj Rajagopal	iagopal Ed Hovy, CMU	
2022	PhD Volkan Cirik Louis-Philippe Morency and Taylo	r Berg-Kirkpatrick, CMU	
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2021	PhD Pengcheng Yin	Graham Neubig, CMU	
2021	MLT Jing Wen Ka	terina 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	
2024	11-851 Talking to Robots 11-777 MultiModal Machine Learning w/Daniel Fried	**	
	_	# Students: 37 , FA	
_	11-777 MultiModal Machine Learning w/Daniel Fried	# Students: 37 , FA # Students: 83 , FA	
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_	AC: Con	ference on Computer Vision and Pattern Recognition (CVPR)	CV
_	AC: Inte	rnational Conference on Learning Representations (ICLR)	AI/ML
_	AE: Tran	sactions on Machine Learning Research (TMLR)	AI/ML
_	AC: Euro	opean Chapter of the Association for Computational Linguistics (E	EACL) NLP
_	SAE: AC	L 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	sactions on Machine Learning Research (TMLR)	AI/ML
_	SAE: AC	L Rolling Review (ARR)	NLP
_	Ethics C	o-Chair: Association for Computational Linguistics (ACL)	NLP
_	SAC: Em	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	IR: Association for the Advancement of Artificial Intelligence (AA	AI) AI/ML
_	AE: Tran	sactions on Machine Learning Research (TMLR)	AI/ML
_	SAC: Em	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	oirical Methods in Natural Language Proc (EMNLP)	NLP
_	AE: ACL	Rolling Review (ARR)	NLP
2020	AC: Asso	ociation for Computational Linguistics (ACL)	NLP
_	AC: Asia	-Pacific chapter of the Assoc. for Computational Linguistics (AAG	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	ver	
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
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	ıs <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 20)18 – 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 Al 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 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

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