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)							
2022 –	Visiting Professor M	leta Fund	damental Al Resea	rch (FAIR))		w/ Dhri	uv Batra
2021 –	Consulting Professo	r Micros	oft Research					
2019 –	Visiting Researcher		ft Research			1	w/ Jiant	eng Gao
2017 –	Postdoctoral Schola University of Washington		n Institute for Artific	cial Intellige	ence		w/ Y	ejin Choi
2015 –	Postdoctoral Schola Information Sciences Ins		niversity of Souther	n California			w/ Dani	iel Marcu
	Education							
2015	PhD in Computer S Thesis: Unsupervised Advisor: Julia Hockenm Committee: Jason Eisne	d Gram r aier	nar Induction wit	h Combir			ımars	
2009	BS in Computer Science The University of Texas at Austin Turing Scholar, Thesis: The Necessity of Separating Control and Logic When Grounding Language using Neuroevolution Advisor: Risto Miikkulainen Second Reader: Raymond Mooney							
	PhD Students							
PhD	Hao Zhu	he/him	Theory of Mind		(co-G Neubig)		LTI	2019 –
PhD	Jared Fernandez		Efficiency		(co-E Strubell)		LTI	2020 –
PhD	Vidhi Jain		Language to Cont	rol	,		RI	2021 -
PhD	Tiffany Min	she/her	Embodiment		(co-R Salakhutdi	inov)	MLD	2021 -
PhD	Yingshan Chang	she/her	Multimodal Reaso	oning			LTI	2022 –
PhD	Abitha Thankaraj	she/her	Language to Cont	trol	(co-A Kumar)		RI	2024 –
	Alumni, Interns	, and	Undergraduat	es				
Ugrad	Claire Jin	she/her	Embodied Dialogu	ıe				2024
Ugrad	Maria Yampolsky	she/her	Audio					2024
Intern	Minyoung Hwang	she/her	Preference Learnin	ng	she/her			2024
MS	Quanting Xie	he/him	LLMs for Robotic	S	he/him		Mec	hE 2023
MSAII	Seed emergence			_				2024
	Harini Subramanyan Karthik Natarajan		Juanyun Mai Noel D Souza		a Morbale o Zhang			
MRSD	Assistive Robotics for				O Zilalig			2023
	Abhinav Gupta		he/him	Atharva	Pusalkar		he/him	3
	Praveen Venkatesh		he/him	Shaolin I	Kataria		he/him	
MLT	Shivam Tripathy Jimin Sun	ala - /1	he/him Embodied Dialog	10		LTI	2024	2 – 2023
	Xiang Fan	sne/ner	Embodied Dialogu Transformer Effici		(co-E Strubell)	LII	2022	2023
Ugrad Intern	Andy Liu		Theory-of-Mind	ency	(co-E Strubell) (co-G Neubig)			2022
mem	Andy Liu		i neoi y-oi-iviina		(co-d iveubig)			2022

lutara	Doogratics Amoni 1 /1:	Crounding			2022
Intern		Grounding	I		2022
MRSD	Modular Teleop with Auton Jashkumar Diyora	he/him	Shruti Gangopadhyay	1 /1	2022
	Jigar Patel	he/him	Prakhar Pradeep	she/her he/him	
	Shivani Sivakumar	she/her	Trakilai Tradeep	ne/ mm	
MCDS	Embodied Navigation and I	,			2022
	Adhokshaja Madhwaraj	he/him	Kushagra Mahajan	he/him	-
	Sai Vishwas Padigi	he/him	Vineeth Reddy	he/him	
	Malaika Vijay	she/her	Zheng (Jessica) Zhong	she/her	
MCDS	Embodied Dialogue and To	M			2022
	Xinyue Chen	she/her	Nikhil Gupta	he/him	
	Benny Jiang	he/him	Shubham Phal	he/him	
MCDC	Prasoon Varshney	he/him			0000
MCDS	Novel Concept Learning	. /2	Limit Li		2022
	Bharani Ujjaini Kempaiah	she/her	Linyi Li	she/her	
MSAII	Visual Patent Search Suchong Dong	she/her	Zhiyuan Guo	he/him	2022
	Mansi Goyal	she/her	Marta Mendez Simon	she/her	
	Sreenidhi Sundaram	she/her	Leon Van Den Berghe	he/him	
MLT		Multimodal Reaso	_	,	- 2022
MLT	,	Embodied Visual	· ·		- 2022
MS	Xiaoyu (Erin) Zhang she/her		•		- 2022
			,	5111 2021	
Ugrad	Feiyu (Gavin) Zhu	Video Summariza	'		2021
Intern	Melanie Sclar	-	y-of-Mind (co-G Neubig)		2021
Intern	Blessing Bassey	<i>TextVQA</i>			2021
	Journal Publications				
1.	Training Vision-Language T	ransformers from	Captions		2023
	Liangke Gui, Yingshan Chang, Q			anfeng Gao,	
	Yonatan Bisk				
	Transactions on Machine Learnin	ng Research			
2.	The Return of Lexical Depe		I Lexicalized PCFGs		2020
	Hao Zhu, <u>Yonatan Bisk</u> , Graham				
	Transactions of the Association	•	=		2010
3.	An HDP Model for Inducing		ategorial Grammars		2013
	Yonatan Bisk, Julia Hockenmaie Transactions of the Association		inguistics		
	Transactions of the Association	or computational E	guistics		
	Conference Publication	200			
	Conference Publication	0115			
4.	OpenEQA: Embodied Ques				2024
	Arjun Majumdar, Anurag Ajay, >				
	Henaff, Sneha Silwal, Paul Mcva Qiyang Li, Ben Newman, Mohit		=		
	Yonatan Bisk, Dhruv Batra, Mrii				
	Aravind Rajeswaran	,		,	
	Conference on Computer Vision	and Pattern Recogn	ition		
5.	SOTOPIA: Interactive Eval	uation for Social	Intelligence in Language A	Agents	2023
	Xuhui Zhou, Hao Zhu, Leena Ma				
	Morency, Yonatan Bisk, Daniel F				
	The Twelfth International Confe	rence on Learning R	epresentations (Spotlight)		
6.	MOSAIC: Learning Unified	Multi-Sensory O	bject Property Representa	tions for	2023
	Robot Perception				
	Gyan Tatiya, Jonathan Francis, I				
	IEEE International Conference of	n Kobotics and Auto	omation		

7.	WebArena: A Realistic Web Environment for Building Autonomous Agents Shuyan Zhou, Frank F. Xu, Hao Zhu, Xuhui Zhou, Robert Lo, Abishek Sridhar, Xianyi Cheng, Yonatan Bisk, Daniel Fried, Uri Alon, Graham Neubig The Twelfth International Conference on Learning Representations	2023
8.	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
0	-	0000
9.	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 G. Hauptmann, Lu Jiang Thirty-seventh Conference on Neural Information Processing Systems	2023
		2022
10.	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
11.	SPRING: GPT-4 Out-performs RL Algorithms by Studying Papers and Reasoning Yue Wu, Shrimai Prabhumoye, So Yeon Min, Yonatan Bisk, Ruslan Salakhutdinov, Amos Azaria, Tom Mitchell, Yuanzhi Li Thirty-seventh Conference on Neural Information Processing Systems	2023
12.	HomeRobot Open Vocab Mobile Manipulation Challenge Sriram Yenamandra, Arun Ramachandran, Mukul Khanna, Karmesh Yadav, Devendra Singh Chaplot, Gunjan Chhablani, Alexander Clegg, Theophile Gervet, Vidhi Jain, Ruslan Partsey, Ram Ramrakhya, Andrew Szot, Tsung-Yen Yang, Aaron Edsinger, Charlie Kemp, Binit Shah, Zsolt Kira, Dhruv Batra, Roozbeh Mottaghi, Yonatan Bisk, Chris Paxton Thirty-seventh Conference on Neural Information Processing Systems: Competition Track	2023
13.	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
14.	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
15.	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
16.	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
17.	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
18.	EvEntS ReaLM: Event Reasoning of Entity States via Language Models Evangelia Spiliopoulou, Artidoro Pagnoni, Yonatan Bisk, Eduard Hovy Conference on Empirical Methods in Natural Language Processing	2022
19.	On Advances in Text Generation from Images Beyond Captioning: A Case Study	2022
13.	in Self-Rationalization Shruti Palaskar, Akshita Bhagia, <u>Yonatan Bisk</u> , Florian Metze, Alan W Black, Ana Marasovic Findings of the Conference on Empirical Methods in Natural Language Processing	2022
20.	Transformers are Adaptable Task Planners Vidhi Jain, Yixin Lin, Eric Undersander, Yonatan Bisk, Akshara Rai Conference on Robot Learning	2022

21.	Symmetric Machine Theory of Mind Melanie Sclar, Graham Neubig, Yonatan Bisk 39th International Conference on Machine Learning	2022
22.	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
23.	Simulated Language Learning from Communicative Goals and Linguistic Input Hao Zhu, Yonatan Bisk, Graham Neubig Annual Meeting of the Cognitive Science Society (Oral)	2022
24.	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
25.	KAT: A Knowledge Augmented Transformer for Vision-and-Language Liangke Gui, Borui Wang, Qiuyuan Huang, Alex Hauptmann, Yonatan Bisk, Jianfeng Gao Annual Conference of the North American Chapter of the Association for Computational	2022
26.	Linguistics (Oral) 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
27	WebQA: Multihop and Multimodal QA	2022
27.	Yingshan Chang, Mridu Narang, Hisami Suzuki, Guihong Cao, Jianfeng Gao, Yonatan Bisk Conference on Computer Vision and Pattern Recognition (Oral)	2022
28.	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
29.	Language Grounding with 3D Objects Jesse Thomason, Mohit Shridhar, Yonatan Bisk, Chris Paxton, Luke Zettlemoyer Conference on Robot Learning	2021
30.	TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment Jianwei Yang, Yonatan Bisk, Jianfeng Gao International Conference on Computer Vision	2021
31.	Few-shot Language Coordination by Modeling Theory of Mind Hao Zhu, Graham Neubig, Yonatan Bisk The Thirty-eighth International Conference on Machine Learning	2021
32.	Grounding 'Grounding' in NLP Khyathi Raghavi Chandu, Yonatan Bisk, Alan W Black Findings of The 2021 Conference of the Association for Computational Linguistics	2021
33.	An Empirical Study on the Generalization Power of Neural Representations Learned via Visual Guessing Games Alessandro Suglia, Yonatan Bisk, Ioannis Konstas, Antonio Vergari, Emanuele Bastianelli, Andrea Vanzo, Oliver Lemon The 2021 Conference of the European Chapter of the Association for Computational	2021
34.	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 35th AAAI Conference on Artificial Intelligence	2021
35.	ALFWorld: Aligning Text and Embodied Environments for Interactive Learning Mohit Shridhar, Xingdi Yuan, Marc-Alexandre Côté, Yonatan Bisk, Adam Trischler, Matthew Hausknecht International Conference on Learning Representations	2021

36.	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
37.	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
38.	RMM: A Recursive Mental Model for Dialog Navigation Homero Roman Roman, Yonatan Bisk, Jesse Thomason, Asli Celikyilmaz, Jianfeng Gao Conference on Empirical Methods in Natural Language Processing: Findings	2020
39.	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 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)	2020
40.	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
41.	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 Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing	2019
42.	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
43.	Improving Robot Success Detection using Static Object Data Rosario Scalise, Jesse Thomason, Yonatan Bisk, Siddhartha Srinivasa IEEE/RSJ International Conference on Intelligent Robots and Systems	2019
44.	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 - RoboCup Best Paper Award finalist	2019
45.	HellaSwag: Can a Machine Really Finish Your Sentence? Rowan Zellers, Ari Holtzman, Yonatan Bisk, Ali Farhadi, Yejin Choi Association for Computational Linguistics	2019
46.	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
47.	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
48.	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
49.	Shifting the Baseline: Single Modality Performance on Visual Navigation & QA Jesse Thomason, Daniel Gordon, Yonatan Bisk Annual Conference of the North American Chapter of the Association for Computational Linguistics	2019

50.	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)	
51.	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)	
52.	SWAG: A Large-Scale Adversarial Dataset for Grounded Commonsense Inference Rowan Zellers, <u>Yonatan Bisk</u> , Roy Schwartz, Yejin Choi Conference on Empirical Methods in Natural Language Processing (Oral)	2018
53.	Synthetic and Natural Noise Both Break Neural Machine Translation Yonatan Belinkov, Yonatan Bisk 6th International Conference on Learning Representations (Oral)	2018
54.	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
55.	Natural Language Inference from Multiple Premises Alice Lai, Yonatan Bisk, Julia Hockenmaier First International Lair Conference Metant Language Processing (Opt)	2017
56.	Eighth International Joint Conference on Natural Language Processing (Oral) Natural Language Communication with Robots	2016
	Yonatan Bisk, Deniz Yuret, Daniel Marcu 15th Annual Conference of the North American Chapter of the Association for	_010
57.	Computational Linguistics (Oral) Supertagging with LSTMs	2016
• • • •	Ashish Vaswani, <u>Yonatan Bisk</u> , Kenji Sagae, Ryan Musa	
	15th Annual Conference of the North American Chapter of the Association for Computational Linguistics (Short Papers) (Oral)	
58.	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
59.	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)	
60.	Labeled Grammar Induction with Minimal Supervision	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)	
61.	Simple Robust Grammar Induction with Combinatory Categorial Grammar Yonatan Bisk, Julia Hockenmaier	2012
	Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)	
62.	Document-Topic Hierarchies from Document Graphs Tim Weninger, Yonatan Bisk, Jiawei Han	2012
	21st ACM international conference on Information and knowledge management (CIKM	
63.	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)	
	Workshop Publications	
64.	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	

65.	Tackling AlfWorld with Action Attention and Common Sense from Language Models	2022
	Yue Wu, So Yeon Min, <u>Yonatan Bisk</u> , Ruslan Salakhutdinov, Shrimai Prabhumoye Language and Reinforcement Learning Workshop at NeurIPS 2022	
66.	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
67.	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
68.	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
69.	Inducing Grammars with and for Neural Machine Translation Ke Tran, Yonatan Bisk 2nd Workshop on Neural Machine Translation	2018
70.	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
71.	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
72.	Unsupervised Neural Hidden Markov Models Ke Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu, Kevin Knight Workshop on Structured Prediction for NLP (Oral)	2016
73.	Induction of Linguistic Structure with Combinatory Categorial Grammars Yonatan Bisk, Julia Hockenmaier NAACL HLT Workshop on Induction of Linguistic Structure	2012
	Tech Reports	
74.	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 ArXiv	2024
75.	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 ArXiv	2024
76.	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, Zhibo 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

77.	Open X-Embodiment: Robotic Learning Datasets and RT-X Models Open X-Embodiment Collaboration, Abhishek Padalkar, Acorn Pooley, Ajinkya Jain, Alex Bewley, Alex Herzog, Alex Irpan, Alexander Khazatsky, Anant Rai, Anikait Singh, Anthony Brohan, Antonin Raffin, Ayzaan Wahid, Ben Burgess-Limerick, Beomjoon Kim, Bernhard Schölkopf, Brian Ichter, Cewu Lu, Charles Xu, Chelsea Finn, Chenfeng Xu, Cheng Chi, Chenguang Huang, Christine Chan, Chuer Pan, Chuyuan Fu, Coline Devin, Danny Driess, Deepak Pathak, Dhruv Shah, Dieter Büchler, Dmitry Kalashnikov, Dorsa Sadigh, Edward Johns, Federico Ceola, Fei Xia, Freek Stulp, Gaoyue Zhou, Gaurav S. Sukhatme, Gautam Salhotra, Ge Yan, Giulio Schiavi, Hao Su, Hao-Shu Fang, Haochen Shi, Heni Ben Amor, Henrik I Christensen, Hiroki Furuta, Homer Walke, Hongjie Fang, Igor Mordatch, Ilija Radosavovic, Isabel Leal, Jacky Liang, Jaehyung Kim, Jan Schneider, Jasmine Hsu, Jeannette Bohg, Jeffrey Bingham, Jiajun Wu, Jialin Wu, Jianlan Luo, Jiayuan Gu, Jie Tan, Jihoon Oh, Jitendra Malik, Jonathan Tompson, Jonathan Yang, Joseph J. Lim, João Silvério, Junhyek Han, Kanishka Rao, Karl Pertsch, Karol Hausman, Keegan Go, Keerthana Gopalakrishnan, Ken Goldberg, Kendra Byrne, Kenneth Oslund, Kento Kawaharazuka, Kevin Zhang, Keyvan Majd, Krishan Rana, Krishnan Srinivasan, Lawrence Yunliang Chen, Lerrel Pinto, Liam Tan, Lionel Ott, Lisa Lee, Masayoshi Tomizuka, Maximilian Du, Michael Ahn, Mingtong Zhang, Mingyu Ding, Mohan Kumar Srirama, Mohit Sharma, Moo Jin Kim, Naoaki Kanazawa, Nicklas Hansen, Nicolas Heess, Nikhil J Joshi, Niko Suenderhauf, Norman Di Palo, Nur Muhammad Mahi Shafiullah, Oier Mees, Oliver Kroemer, Pannag R Sanketi, Paul Wohlhart, Peng Xu, Pierre Sermanet, Priya Sundaresan, Quan Vuong, Rafael Rafailov, Ran Tian, Ria Doshi, Roberto Martín-Martín, Russell Mendonca, Rutav Shah, Ryan Hoque, Ryan Julian, Samuel Bustamante, Sean Kirmani, Sergey Levine, Sherry Moore, Shikhar Bahl, Shivin Dass, Shuran Song, Sichun Xu, Sidhant Haldar, Simeon Adebola, Simon Guist, Soroush Nasiriany, Stefan Schaal	2023
78.	Reasoning about the Unseen for Efficient Outdoor Object Navigation Quanting Xie, Tianyi Zhang, Kedi Xu, Matthew Johnson-Roberson, Yonatan Bisk ArXiv	2023
79.	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
80.	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
81.	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
82.	FIND: Identifying Functionally and Structurally Important Features in Protein Sequences with Deep Neural Networks Ranjani Murali, James Hemp, Victoria Orphan, Yonatan Bisk bioRxiv	2019
83.	CHALET: Cornell House Agent Learning Environment Claudia Yan, Dipendra Misra, Andrew Bennett, Aaron Walsman, Yonatan Bisk, Yoav Artzi ArXiv Preprint 1801.07357	2018

84. Unsupervised Grammar Induction with Combinatory Categorial Grammars Yonatan Bisk University of Illinois at Urbana-Champaign

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interested in CS, UIUC, ISI

	Thesis Committees			
_	PhD Lijun Yu	Alex Hauptmann, CMU		
_	PhD Liangke Gui	Alex Hauptmann, CMU		
_	PhD Jielin Qiu	Lei Li & Christos Faloutsos, CMU		
2023	MSR Mateo Guaman Castro	Sebastian Scherer, CMU		
2023	PhD Kaixin Ma	Eric Nyberg, CMU		
2023	PhD Nicholas Botzer	Tim Weninger, Notre Dame		
2023	PhD Naoki Otani	Ed Hovy, CMU		
2023	PhD Dylan Ebert	Ellie Pavlick, Brown		
2022	PhD Shikib Mehri	Maxine Eskenazi , CMU		
2022	PhD Shruti Palaskar	Alan Black and Florian Metze, CMU		
2022	PhD Evangelia Spiliopoulou	Ed Hovy, CMU		
2022	PhD Dheeraj Rajagopal	Ed Hovy, CMU		
2022	PhD Volkan Cirik	Louis-Philippe Morency and Taylor Berg-Kirkpatrick, CMU		
2022	MLT Aishwarya Jadhav	Katia Sycara, CMU		
2021	PhD Pengcheng Yin	Graham Neubig, CMU		
2020	PhD Zihang Dai	Yiming Yang, CMU		
2021	MLT Jing Wen	Katerina Fragkiadaki, CMU		
2021	Qual Mohit Sharma	Oliver Kroemer, CMU		
	Teaching			
2024	· ·	Co Doniel Fried // Studenter 12F SD		
2024	11-777 MultiModal Machine Learni 11-851 Talking to Robots	ng		
2023	11-767 On-Device Machine Learning			
	11-777 MultiModal Machine Learni	- "		
2022	11-767 On-Device Machine Learning	-		
2022	11-777 MultiModal Machine Learni	- "		
2021	11-767 On-Device Machine Learning	-		
	11-777 MultiModal Machine Learni	- "		
	Diversity and Inclusion			
2022	NAACL 2022 DEI Co-Chair			
2021	Restructuring of LTI PhD Admission	ns, 2yr		
2020	LTI DEI Committee,	2yrs		
2019	CrashCourse Al Educational YouTube Ashe. Co-Written with Lana Yarosh an	e series targeted at high-school age viewers. Hosted by Jabril d Tim Weninger, 1yr		
2018	ACM Council on Diversity & Inclusion Investigating and initiating institutional change within ACM on behalf of underrepresented groups., 1yr			
_	Grace Hopper PC member Review s	ubmissions to Al Technical Track, 1yr		
2016	NCWIT Collegiate Award Review ap Technology's Collegiate Award honoring	plications for the National Center for Women & Information g college women, ISI 3yrs		
2009		Review applications for the National Center for Women & pirations in Computing which supports high-school girls		

_	Tech Junket/Women in CS Outreach for local Urbana-Champaign pre-college students, UIUC					
2008	2yrs Freshmai	n Research Mentor Mentored students to perform research, UTexas	1yr			
_		res Helped organize a summer camp for girls interested in CS, UTexas	<i>-1y1</i>			
_	•	ded Breakfast Bytes Professor talks for pre-college students, UTexas	1yr			
_		show CS presentations at Austin middle and high schools, UTexas	1yr			
	(Senior) Area Chair / Action Editor					
2024	Conferen	ce on Computer Vision and Pattern Recognition (CVPR)	CV			
_	Internati	onal Conference on Learning Representations (ICLR)	AI/ML			
_	Europear	n Chapter of the Association for Computational Linguistics (EACL)	NLP			
_		E: ACL Rolling Review (ARR)	NLP			
_		sactions on Machine Learning Research (TMLR)	AI/ML			
2023	Neural In	nformation Processing Systems (NeurIPS)	AI/ML			
_		onal Conference on Machine Learning (ICML)	AI/ML			
_		sactions on Machine Learning Research (TMLR)	AI/ML			
_		E: ACL Rolling Review (ARR)	NLP			
_		o-Chair: Association for Computational Linguistics (ACL)	NLP			
-		I Methods in Natural Language Proc (EMNLP)	NLP			
2022		onal Conference on Learning Representations (ICLR)	AI/ML			
_		IR: Association for the Advancement of Artificial Intelligence (AAAI)	AI/ML			
_		C: Empirical Methods in Natural Language Proc (EMNLP)	NLP			
_		sactions on Machine Learning Research (TMLR)	AI/ML NLP			
_	Senior AE: ACL Rolling Review (ARR)					
_	Neural Information Processing Systems (NeurIPS)					
2021	International Conference on Learning Representations (ICLR)					
_	Association for Computational Linguistics (ACL)					
_	Empirical Methods in Natural Language Proc (EMNLP)					
_	Neural Information Processing Systems (NeurIPS)					
-		ling Review (ARR)	NLP			
2020		on for Computational Linguistics (ACL) nformation Processing Systems (NeurIPS)	NLP			
_		,	AI/ML NLP			
2010		ific chapter of the Association for Computational Linguistics (AACL)	NLP			
2019		on for Computational Linguistics (ACL) onal Conference on Computational Linguistics	NLP			
2018 2016		nce on Lexical and Computational Semantics (*SEM)	NLP			
2010	Comerci	ice on Lexical and Computational Semantics (SLIVI)	IVLI			
	Review					
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			
		International Joint Conference on Natural Language Processing	2017			
	NAACL	N. American Chapter of the Association for Computational Ling	2016 – 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	Conference on Robot Learning	2019 – 2021,2023
	AURO	Autonomous Robots	2022
	RSS	Robotics: Science and Systems	2022
	HRI	Human Robot Interaction	2020 - 2024
	ICRA	International Conference on Robotics and Automation	2019,2023, 2024
	IJRR	International Journal of Robotics Research	2017
	IROS	$\ensuremath{\mathrm{IEEE}/\mathrm{RSJ}}$ International Conference on Intelligent Robots and Syste	ms <i>2019,2023</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	2019 – 2020
	ICML	International Conference on Machine Learning	2019
	IJCAI	International Joint Conference on Artificial Intelligence	2019
	NeurIPS	Neural Information Processing Systems	2018 – 2019
CV	CVPR	Computer Vision and Pattern Recognition	2020, 2023

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

- 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

Univ of Illinois at Urbana-Champaign NLP 2021

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

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

Colloquium Talk Northwest NLP 2018

2017 Invited Talk University of Notre Dame NLP Seminar

Invited Talk University of California, Irvine AI/ML Seminar

Invited Talk Pacific Northwest National Laboratory

Invited Poster The Impact of Computing in Our Physical World session of the CRA's Computing Community Consortium (CCC) Symposium on Computing Research

Colloquium Talk Toyota Tech. Inst. of Chicago's Midwest Speech & Language Days 2015

2013 Colloquium Talk Toyota Tech. Inst. of Chicago's Midwest Speech & Language Days