Yonatan Bisk

Assistant Professor of Computer Science

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

	Positions							
2020 –	Assistant Professor Language Technologies Robotics Institute (cour	Institute	Mellon University	,				
2022 –	Visiting Professor M	- /	damental AI Resea	rch (FAIR))	W,	w/ Dhruv Batra	
2021 -	Consulting Professor			,		,		
2019 –	Visiting Researcher	Microso	ft Research			w/	′ Jianfe	eng Gao
2017 –	Postdoctoral Schola							
	University of Washingto		n Institute for Artifi	cial Intellige	ence		w/ Ye	ejin Choi
2015 –	Postdoctoral Scholar Information Sciences Ins		niversity of Souther	n California	1	w,	/ Danie	el Marcu
	Education							
2015	PhD in Computer S	cience	The University of I	llinois at U	Irbana-Champaign,			
	Thesis: Unsupervised	l Grami				ramm	iars	
	Advisor: Julia Hockenm Committee: Jason Eisne		Roth ChengXiang 7	hai				
2009	BS in Computer Sci				tin Turing Scholar,			
	Thesis: The Necessity		•		_	age us	sing	
	Neuroevolution Advisor: Risto Miikkulai		Casand Baadam B	armand Ma				
	Advisor: Risto ivilikkulai	inen	Second Reader: R	aymond ivid	oney			
	PhD Students							
PhD	Hao Zhu	l /l. t	Theory of Mind		(co-G Neubig)		LTI	2019 –
PhD	Jared Fernandez		Efficiency		(co-E Strubell)		LTI	2019 –
PhD	Vidhi Jain		Language to Con	trol	(CO-L Strubell)		RI	2020 -
PhD	Tiffany Min		Embodiment	LIOI	(co-R Salakhutdinov	v)		2021 -
PhD	Yingshan Chang		Multimodal Reason	ninσ	(co it Salakilatalliot	′)	LTI	2022 -
TIID	ringshan Chang	sile/ilei	Wattimodal Reaso	Jillig				2022
	Professional Ma	sters	Students					
MRSD	Assistive Robotics for			kson)				2023
WINSD	A11: C .		he/him	Atharva	Pusalkar	he	e/him	2025
	Praveen Venkatesh		he/him	Shaolin k	Kataria	he	e/him	
	Shivam Tripathy		he/him					
	Alumni, Interns,	and	Undergraduat	tes				
MLT	Jimin Sun		Embodied Dialog			LTI	2022	- 2023
Ugrad	Xiang Fan	sile/ilei	Transformer Effici		(co-E Strubell)		2022	2023
Intern	Andy Liu		Theory-of-Mind	ichcy	(co-G Neubig)			2022
Intern	Deogratias Amani	he/him	Grounding		(co o recubig)			2022
MRSD	Modular Teleop witl		-	kson)				2022
	Jashkumar Diyora		he/him	•	angopadhyay	sł	ne/her	
	Jigar Patel		he/him	Prakhar	Pradeep	he	e/him	
	Shivani Sivakumar		she/her					

MCDS	Embodied Navigation and	Interaction					2022
	Adhokshaja Madhwaraj	he/him	Kushagra	a Mahajan	he	/him	
	Sai Vishwas Padigi	he/him	Vineeth	•	he	/him	
	Malaika Vijay	she/her	Zheng (J	lessica) Zhong	she	e/her	
MCDS	Embodied Dialogue and To	οM					2022
	Xinyue Chen	she/her	Nikhil G	-		/him	
	Benny Jiang	he/him	Shubham	n Phal	he	/him	
MCDC	Prasoon Varshney	he/him					2222
MCDS	Novel Concept Learning	1 /1	1 :		,		2022
	Bharani Ujjaini Kempaiah	she/her	Linyi Li		she	e/her	
MSAII	Visual Patent Search Suchong Dong	she/her	Zhiyuan	Guo	h a		2022
	Mansi Goyal	she/her	-	endez Simon		/him e/her	
	Sreenidhi Sundaram	she/her		n Den Berghe		/him	
MLT		Multimodal Reas		T Dell Delglie	LTI	2020 – 2	022
MLT		Embodied Visua	_		LTI	2020 – 2	
MS	Xiaoyu (Erin) Zhang she/her		-	(co-O Kroemer)	5th	2021 – 2	
				,	Stil		
Ugrad	Feiyu (Gavin) Zhu	Video Summariz		(co-C Paxton)			2021
Intern	Melanie Sclar	Symmetric Theo	ory-of-Mind	(co-G Neubig)		2	2021
Intern	Blessing Bassey	TextVQA				2	2021
	Journal Publications						
1.	Training Vision-Language	Fransformers from	m Captions				2023
	Liangke Gui, Yingshan Chang, (ıfeng Ga		_0_0
	Yonatan Bisk	. ,	•		Ü		
	Transactions on Machine Learni	ng Research					
2.	The Return of Lexical Dep	endencies: Neur	al Lexicaliz	ed PCFGs			2020
	Hao Zhu, <u>Yonatan Bisk,</u> Grahan						
	Transactions of the Association	for Computational	Linguistics				
3.	An HDP Model for Inducin		Categorial	Grammars			2013
	Yonatan Bisk, Julia Hockenmaie						
	Transactions of the Association	for Computational	Linguistics				
	6 (DII: ::						
	Conference Publication	ons					
4.	Spatial-Language Attention						2023
	Priyam Parashar, Vidhi Jain, Xi	aohan Zhang, Jay \	/akil, Sam P	owers, <u>Yonatan Bisk</u> ,	Chris		
	Paxton						
	Conference on Robot Learning				_		
5.	SPAE: Semantic Pyramid A	AutoEncoder for	Multimoda	al Generation with	Frozer	1	2023
	LLMs Lijun Yu, Yong Cheng, Zhiruo V	Vang Vivek Kumar	Wolfgang N	Macherey Yanning Hu	ianσ Da	vid	
	A. Ross, Irfan Essa, Yonatan Bis						
	Lu Jiang	0	O .		•		
	Thirty-seventh Conference on N	eural Information F	Processing Sy	rstems			
6.	HomeRobot: Open-Vocabu	ılary Mobile Maı	nipulation				2023
	Sriram Yenamandra, Arun Rama						
	Theophile Gervet, Tsung-Yen Ya						
	Kira, Manolis Savva, Angel Cha	ng, Devendra Singh	n Chaplot, D	hruv Batra, Roozbeh	Mottagh	11,	
	Yonatan Bisk, Chris Paxton Conference on Robot Learning						
7	<u> </u>	ume DI Alaquith	me by C+	dving Danors and	Rosson	ina	2023
7.	SPRING: GPT-4 Out-performant Prabhumoye, S						ZUZ 3
	Tom Mitchell, Yuanzhi Li	55 15011 Willi, 1011a	, INU	o.an Jaiamiatamov, A		,	
	Thirty-seventh Conference on N	eural Information F	Processing Sy	rstems			
			- ,				

8.	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
9.	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
10.	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	2023
11.	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
12.	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
13.	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
14.	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
15.	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 Findings of the Conference on Empirical Methods in Natural Language Processing	2022
16.	Transformers are Adaptable Task Planners Vidhi Jain, Yixin Lin, Eric Undersander, Yonatan Bisk, Akshara Rai Conference on Robot Learning	2022
17.	Symmetric Machine Theory of Mind Melanie Sclar, Graham Neubig, Yonatan Bisk 39th International Conference on Machine Learning	2022
18.	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
19.	Simulated Language Learning from Communicative Goals and Linguistic Input Hao Zhu, Yonatan Bisk, Graham Neubig Annual Meeting of the Cognitive Science Society (Oral)	2022
20.	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
21.	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 Linguistics (Oral)	2022
22.	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

23.	WebQA: Multihop and Multimodal QA Yingshan Chang, Mridu Narang, Hisami Suzuki, Guihong Cao, Jianfeng Gao, <u>Yonatan Bisk</u> Conference on Computer Vision and Pattern Recognition (Oral)	2022
24.	Dependency Induction Through the Lens of Visual Perception Ruisi Su, Shruti Rijhwani, Hao Zhu, Junxian He, Xinyu Wang, <u>Yonatan Bisk</u> , Graham Neubig The SIGNLL Conference on Computational Natural Language Learning	2021
25.	Language Grounding with 3D Objects Jesse Thomason, Mohit Shridhar, Yonatan Bisk, Chris Paxton, Luke Zettlemoyer Conference on Robot Learning	2021
26.	TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment Jianwei Yang, <u>Yonatan Bisk</u> , Jianfeng Gao International Conference on Computer Vision	2021
27.	Few-shot Language Coordination by Modeling Theory of Mind Hao Zhu, Graham Neubig, Yonatan Bisk The Thirty-eighth International Conference on Machine Learning	2021
28.	Grounding 'Grounding' in NLP Khyathi Raghavi Chandu, Yonatan Bisk, Alan W Black Findings of The 2021 Conference of the Association for Computational Linguistics	2021
29.	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
30.	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
31.	35th AAAI Conference on Artificial Intelligence ALFWorld: Aligning Text and Embodied Environments for Interactive Learning Mohit Shridhar, Xingdi Yuan, Marc-Alexandre Côté, Yonatan Bisk, Adam Trischler, Matthew Hausknecht International Conference on Learning Representations	2021
32.	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
33.	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 (EMNLP) (Oral)	2020
34.	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
35.	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
36.	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
37.	Robust Navigation with Language Pretraining and Stochastic Sampling Xiujun Li, Chunyuan Li, Qiaolin Xia, <u>Yonatan Bisk</u> , Asli Celikyilmaz, Jianfeng Gao, Noah A. Smith, Yejin Choi	2019
	Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing	

38.	Defending Against Neural Fake News Rowan Zellers, Ari Holtzman, Hannah Rashkin, <u>Yonatan Bisk</u> , Ali Farhadi, Franziska Roesner, Yejin Choi Thirty-third Conference on Neural Information Processing Systems	2019
39.	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
40.	Early Fusion for Goal Directed Robotic Vision Aaron Walsman, <u>Yonatan Bisk</u> , Saadia Gabriel, Dipendra Misra, Yoav Artzi, Yejin Choi, Dieter Fox	2019
41.	2019 IEEE/RSJ International Conference on Intelligent Robots and Systems - RoboCup Best Paper Award finalist HellaSwag: Can a Machine Really Finish Your Sentence?	2019
	Rowan Zellers, Ari Holtzman, <u>Yonatan Bisk</u> , Ali Farhadi, Yejin Choi Association for Computational Linguistics	
42.	From Recognition to Cognition: Visual Commonsense Reasoning Rowan Zellers, Yonatan Bisk, Ali Farhadi, Yejin Choi The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) (Oral)	2019
43.	Tactical Rewind: Self-Correction via Backtracking in Vision-and-Language	2019
	Navigation Liyiming Ke, Xiujun Li, <u>Yonatan Bisk</u> , Ari Holtzman, Zhe Gan, Jingjing Liu, Jianfeng Gao, Yejin Choi, Siddhartha Srinivasa	
	The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) (Oral)	
44.	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
45.	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	
46.	Benchmarking Hierarchical Script Knowledge Yonatan Bisk, Jan Buys, Karl Pichotta, Yejin Choi	2019
4-7	Annual Conference of the North American Chapter of the Association for Computational Linguistics (Oral)	2010
47.	Character-based Surprisal as a Model of Reading Difficulty in the Presence of Errors Michael Hahn, Frank Keller, Yonatan Bisk, Yonatan Belinkov The 41st Annual Meeting of the Cognitive Science Society (Oral)	2019
48.	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 (EMNLP) (Oral)	2018
49.	Synthetic and Natural Noise Both Break Neural Machine Translation Yonatan Belinkov, Yonatan Bisk 6th International Conference on Learning Representations (Oral)	2018
50.	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
51.	Natural Language Inference from Multiple Premises Alice Lai, Yonatan Bisk, Julia Hockenmaier Eighth International Joint Conference on Natural Language Processing (Oral)	2017
52.	Natural Language Communication with Robots Yonatan Bisk, Deniz Yuret, Daniel Marcu 15th Annual Conference of the North American Chapter of the Association for Computational Linguistics (Oral)	2016
53.	Supertagging with LSTMs 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)	2016

54.	<u>Yonatan Bisk</u> , Siva Reddy, John Blitzer, Julia Hockenmaier, Mark Steedman 2016 Conference on Empirical Methods in Natural Language Processing	2016
55.	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)	
56.	Labeled Grammar Induction with Minimal Supervision Yonatan Bisk, Christos Christodoulopoulos, Julia Hockenmaier 53rd Annual Meeting of the Association for Computational Linguistics and the 7th	2015
57.	International Joint Conference on Natural Language Processing (Volume 2: Short Papers) Simple Robust Grammar Induction with Combinatory Categorial Grammar Yonatan Bisk, Julia Hockenmaier Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)	2012
58.	Document-Topic Hierarchies from Document Graphs Tim Weninger, Yonatan Bisk, Jiawei Han 21st ACM international conference on Information and knowledge management (CIKM	2012
59.	Normal-form parsing for CCGs with generalized composition and type-raising Julia Hockenmaier, Yonatan Bisk 23rd International Conference on Computational Linguistics (Coling 2010)	2010
	Workshop Publications	
60.	MAEA: Multimodal Attribution for Embodied Al Vidhi Jain, Jayant Sravan Tamarapalli, Sahiti Yerramilli, <u>Yonatan Bisk</u> Progress and Challenges in Building Trustworthy Embodied AI at NeurIPS 2022	2022
61.	Tackling AlfWorld with Action Attention and Common Sense from Language Models Yue Wu, So Yeon Min, Yonatan Bisk, Ruslan Salakhutdinov, Shrimai Prabhumoye Language and Reinforcement Learning Workshop at NeurIPS 2022	2022
62.	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
63.	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
64.	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
65.	Inducing Grammars with and for Neural Machine Translation Ke Tran, Yonatan Bisk 2nd Workshop on Neural Machine Translation	2018
66.	Bridging HMMs and RNNs through Architectural Transformations Jan Buys, <u>Yonatan Bisk</u> , Yejin Choi 32nd Conference on Neural Information Processing Systems (NIPS 2018), IRASL workshop	2018
67.	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
68.	Unsupervised Neural Hidden Markov Models Ke Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu, Kevin Knight Workshop on Structured Prediction for NLP (Oral)	2016

69.	Induction of Linguistic Structure with Combinatory Categorial Grammars Yonatan Bisk, Julia Hockenmaier NAACL HLT Workshop on Induction of Linguistic Structure	2012
	Tech Reports	
70.	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, Siddhant Haldar, Simeon Adebola, Simon Guist, Soroush Nasiriany, Stefan Schaa	2023
71.	Reasoning about the Unseen for Efficient Outdoor Object Navigation	2023
	Quanting Xie, Tianyi Zhang, Kedi Xu, Matthew Johnson-Roberson, <u>Yonatan Bisk</u> ArXiv	
72.	MOSAIC: Learning Unified Multi-Sensory Object Property Representations for Robot Perception Gyan Tatiya, Jonathan Francis, Ho-Hsiang Wu, Yonatan Bisk, Jivko Sinapov ArXiv	2023
73.	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 ArXiv	2023

74. Plan, Eliminate, and Track - Language Models are Good Teachers for Embodied

Yue Wu, So Yeon Min, Yonatan Bisk, Ruslan Salakhutdinov, Amos Azaria, Yuanzhi Li, Tom

Mitchell, Shrimai Prabhumoye

ArXiv

2023

69.

75.	Singh Chaplot, Changan Chen, Claudia Pé Anthony Francis, Chuang Gan, Kristen Gra Aniruddha Kembhavi, Jacob Krantz, Stefa Maksymets, Roberto Martín-Martín, Roozh Silvio Savarese, Manolis Savva, Mohit Shri	Workshop Tommaso Campari, Angel X. Chang, Devendra rez D'Arpino, Kiana Ehsani, Ali Farhadi, Li Fei-Fei, numan, David Hall, Winson Han, Unnat Jain, n Lee, Chengshu Li, Sagnik Majumder, Oleksandr neh Mottaghi, Sonia Raychaudhuri, Mike Roberts, dhar, Niko Sünderhauf, Andrew Szot, Ben Talbot, slexander Toshev, Joanne Truong, Luca Weihs, Jiajun	2022	
76.	Multi-View Learning for Vision-and-	Language Navigation tan Bisk, Zhifang Sui, Jianfeng Gao, Yejin Choi, Noah	2020	
77.	FIND: Identifying Functionally and S Sequences with Deep Neural Netwo Ranjani Murali, James Hemp, Victoria Orp bioRxiv		2019	
78.	CHALET: Cornell House Agent Lead Claudia Yan, Dipendra Misra, Andrew Ben ArXiv Preprint 1801.07357	r <mark>ning Environment</mark> nett, Aaron Walsman, <u>Yonatan Bisk,</u> Yoav Artzi	2018	
79.	Unsupervised Grammar Induction with Yonatan Bisk University of Illinois at Urbana-Champaign	ith Combinatory Categorial Grammars	2015	
_	Thesis Committees			
_	PhD Lijun Yu	Alex Hauptmann,	CMU	
_	PhD Liangke Gui	Alex Hauptmann,		
2023	MSR Mateo Guaman Castro	Sebastian Scherer,		
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,		
2021	MLT Jing Wen	Katerina Fragkiadaki, (
2021	Qual Mohit Sharma	Oliver Kroemer,	CMU	
	Teaching			
2023	11-851 Talking to Robots	# Students: 16	6, FA	
	11-767 On-Device Machine Learning	<i>Co-Emma Strubell #</i> Students: 69	9, FA	
	11-777 MultiModal Machine Learnin	Co-Daniel Fried # Students: 107	7, SP	
2022	11-767 On-Device Machine Learning			
	11-777 MultiModal Machine Learnin	-		
2021	11-767 On-Device Machine Learning	-		
	11-777 MultiModal Machine Learning	ng # Students: 42	2, SP	

	Diversity and Inclusion	
2022	NAACL 2022 DEI Co-Chair	
2021	Restructuring of LTI PhD Admissions,	2yr
2020	LTI DEI Committee,	2yrs
2019	CrashCourse AI Educational YouTube series targeted at high-school age viewers. Ho Ashe. Co-Written with Lana Yarosh and Tim Weninger,	sted by Jabril <i>1yr</i>
2018	ACM Council on Diversity & Inclusion Investigating and initiating institutional cha ACM on behalf of underrepresented groups.,	nge within <i>1yr</i>
_	Grace Hopper PC member Review submissions to AI Technical Track,	1yr
2016	NCWIT Collegiate Award Review applications for the National Center for Women & Technology's Collegiate Award honoring college women, ISI	Information <i>3yrs</i>
2009	NCWIT Aspirations in Computing Review applications for the National Center for Information Technology's Award for Aspirations in Computing which supports high-schinterested in CS, UIUC, ISI	
-	Tech Junket/Women in CS Outreach for local Urbana-Champaign pre-college stude <i>2yrs</i>	ents, UIUC
2008	Freshman Research Mentor Mentored students to perform research, UTexas	1yr
_	First Bytes Helped organize a summer camp for girls interested in CS, UTexas	
_	Co-Founded Breakfast Bytes Professor talks for pre-college students, UTexas	1yr
_	CS Roadshow CS presentations at Austin middle and high schools, UTexas	1yr
_	(Senior) Area Chair / Action Editor	
2024	Conference on Computer Vision and Pattern Recognition (CVPR)	CV
_	International Conference on Learning Representations (ICLR)	AI/ML
2023	Neural Information Processing Systems (NeurIPS)	AI/ML
_	International Conference on Machine Learning (ICML)	AÍ/ML
_	AE: Transactions on Machine Learning Research (TMLR)	AI/ML
_	Senior AE: ACL Rolling Review (ARR)	NLP
_	Ethics Co-Chair: Association for Computational Linguistics (ACL)	NLP
_	Empirical Methods in Natural Language Proc (EMNLP)	NLP
2022	International Conference on Learning Representations (ICLR)	AI/ML
_	Senior MR: Association for the Advancement of Artificial Intelligence (AAAI)	AI/ML
_	Senior AC: Empirical Methods in Natural Language Proc (EMNLP)	NLP
_	AE: Transactions on Machine Learning Research (TMLR)	AI/ML
_	Senior AE: ACL Rolling Review (ARR)	NLP
_	Neural Information Processing Systems (NeurIPS)	AI/ML
2021	International Conference on Learning Representations (ICLR)	AI/ML
_	Association for Computational Linguistics (ACL)	NLP
-	Empirical Methods in Natural Language Proc (EMNLP)	NLP
_	Neural Information Processing Systems (NeurIPS)	AI/ML
_	ACL Rolling Review (ARR)	NLP
2020	Association for Computational Linguistics (ACL)	NLP
_	Neural Information Processing Systems (NeurIPS)	AI/ML
_	Asia-Pacific chapter of the Association for Computational Linguistics (AACL)	NLP
2019	Association for Computational Linguistics (ACL)	NLP
2018	International Conference on Computational Linguistics	NLP
2016	Conference on Lexical and Computational Semantics (*SEM)	NLP

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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
	IJCNLP	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 2	019 - 2021,2023
	AURO	Autonomous Robots	2022
	RSS	Robotics: Science and Systems	2022
	HRI	Human Robot Interaction	2020 - 2023
	ICRA	International Conference on Robotics and Automation	2019,2023
	IJRR	International Journal of Robotics Research	2017
	IROS	${\it IEEE/RSJ}$ International Conference on Intelligent Robots and System	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

- 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
- 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 Koc University Al center

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

Guest Lecture: Embodiment for NLP Univ of Pennsylvania Guest Lecture: Multimodality in NLP UWashington Linguistics

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

The University of Texas at Austin - Forum for AI

Cornell Learning Machines seminar

Stanford NLP seminar

SRI Center for Vision Technology Lab Panel Embodied Al

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

Invited Talk University of California, Irvine AI/ML Seminar

Invited Talk Pacific Northwest National Laboratory

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