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	leta Fun	damental AI Resea	rch (FAIR))		w/ Dhru	ıv Batra
2021 -	Consulting Professo	r Micros	oft Research	, ,				
2019 –	Visiting Researcher	Microso	ft Research			1	w/ Jianf	eng Gao
2017 –	Postdoctoral Schola University of Washingto		n Institute for Artific	cial Intellige	ence		w/ Y	ejin Choi
2015 –	Postdoctoral Schola Information Sciences In:		niversity of Souther	n California			w/ Dani	el Marcu
_	Education							
2015	PhD in Computer S Thesis: Unsupervised Advisor: Julia Hockenm Committee: Jason Eisne	d Gram r aier	nar Induction wit	h Combir		Gran	nmars	
2009	BS in Computer Sci Thesis: The Necessity Neuroevolution Advisor: Risto Miikkula	of Sepa		Logic Wh	en Grounding Lan	guage	using	
	PhD Students	men	Second Reduct. The	aymond ivid	oney			
PhD	Hao Zhu	he/him	Theory of Mind		(co-G Neubig)		LTI	2019 –
PhD	Jared Fernandez	he/him	Efficiency		(co-E Strubell)		LTI	2020 –
PhD	Vidhi Jain	she/her	Language to Cont	trol			RI	2021 –
PhD	Tiffany Min	she/her	Embodiment		(co-R Salakhutdii	10v)	MLD	2021 –
PhD	Yingshan Chang	she/her	Multimodal Reaso	oning			LTI	2022 –
	MS Students							
PhD	Quanting Xie	he/him	LLMs for Robotic	S			MechE	2023
_	Alumni, Interns	, and	Undergraduat	es				
MRSD	Assistive Robotics for Abhinav Gupta Praveen Venkatesh	or Elder	he/him he/him	k son) Atharva Shaolin k			he/him he/him	2023
MLT	Shivam Tripathy Jimin Sun	she/her	he/him Embodied Dialogi	ue		LTI	2022	2 – 2023
Ugrad	Xiang Fan	5110/1101	Transformer Effici		(co-E Strubell)			2022
Intern	Andy Liu		Theory-of-Mind	,	(co-G Neubig)			2022
Intern	Deogratias Amani	he/him	Grounding		(2022
MRSD	Modular Teleop wit		-	kson)				2022
	Jashkumar Diyora Jigar Patel Shivani Sivakumar		he/him he/him she/her	Shruti Ga Prakhar	angopadhyay Pradeep		she/her he/him	

MCDS	Embodied Navigation and I	nteraction				2022
	Adhokshaja Madhwaraj	he/him	Kushagra	a Mahajan	he/h	im
	Sai Vishwas Padigi	he/him	Vineeth I	•	he/h	im
	Malaika Vijay	she/her	Zheng (J	lessica) Zhong	she/l	ner
MCDS	Embodied Dialogue and To	M				2022
	Xinyue Chen	she/her	Nikhil Gu	•	he/h	
	Benny Jiang	he/him	Shubham	n Phal	he/h	im
MCDC	Prasoon Varshney	he/him				2022
MCDS	Novel Concept Learning	. /1	Limit Li		1 /1	2022
	Bharani Ujjaini Kempaiah	she/her	Linyi Li		she/l	
MSAII	Visual Patent Search Suchong Dong	she/her	Zhiyuan	Guo	he/h	2022
	Mansi Goyal	she/her	-	endez Simon	she/l	
	Sreenidhi Sundaram	she/her		n Den Berghe	he/h	
MLT		Multimodal Reas		T Dell Delglie		020 – 2022
MLT		Embodied Visual	-			020 – 2022
MS	Xiaoyu (Erin) Zhang she/her		-	(co-O Kroemer)		021 – 2022
				,	Juli 2	
Ugrad	Feiyu (Gavin) Zhu	Video Summariza		(co-C Paxton)		2021
Intern	Melanie Sclar	Symmetric Theor	ry-of-Mind	(co-G Neubig)		2021
Intern	Blessing Bassey	<i>TextVQA</i>				2021
	Journal Publications					
1.	Training Vision-Language T	ransformers fron	n Captions	6		2023
	Liangke Gui, Yingshan Chang, G				infeng Gao,	
	Yonatan Bisk					
	Transactions on Machine Learnin	ng Research				
2.	The Return of Lexical Depe	endencies: Neura	al Lexicaliz	ed PCFGs		2020
	Hao Zhu, <u>Yonatan Bisk</u> , Graham					
	Transactions of the Association	•	_	_		
3.	An HDP Model for Inducin		Categorial	Grammars		2013
	Yonatan Bisk, Julia Hockenmaie Transactions of the Association		Linguistics			
	Transactions of the Association	ior Computational I	Liliguistics			
	Conference Publication	nc.				
			5 .			2022
4.	Spatial-Language Attention Priyam Parashar, Vidhi Jain, Xia				Chric	2023
	Paxton	ionan Zhang, Jay v	akii, Jaiii F	owers, <u>ronatan bisk</u> ,	, CIIIIS	
	Conference on Robot Learning					
5.	SPAE: Semantic Pyramid A	AutoEncoder for	Multimoda	al Generation with	h Frozen	2023
3.	LLMs	tatoEncoder for	···aitimout	ar Ceneration With	11102011	2020
	Lijun Yu, Yong Cheng, Zhiruo W					
	A. Ross, Irfan Essa, <u>Yonatan Bis</u>	<u>k,</u> Ming-Hsuan Yan	g, Kevin Mı	urphy, Alexander G. I	Hauptmann	,
	Lu Jiang					
_	Thirty-seventh Conference on No.			rstems		2022
6.	HomeRobot: Open-Vocabu		•	\^/ \^4 1 1 2		2023
	Sriram Yenamandra, Arun Rama Theophile Gervet, Tsung-Yen Ya					
	Kira, Manolis Savva, Angel Char					
	Yonatan Bisk, Chris Paxton	G, 2 2 2 2 2 1 9 1	- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	.,	0 ,	
	Conference on Robot Learning					
7.	SPRING: GPT-4 Out-perfo	rms RL Algorithi	ns by Stu	dying Papers and	Reasonin	g 2023
	Yue Wu, Shrimai Prabhumoye, S					
	Tom Mitchell, Yuanzhi Li					
	Thirty-seventh Conference on No	eural Information P	rocessing 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, <u>Yonatan Bisk</u> , 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, <u>Yonatan Bisk</u> , 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	2012
	NAACL HLT Workshop on Induction of Linguistic Structure	
	Tech Reports	
70.	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
71.	SOTOPIA: Interactive Evaluation for Social Intelligence in Language Agents Xuhui Zhou, Hao Zhu, Leena Mathur, Ruohong Zhang, Haofei Yu, Zhengyang Qi, Louis-Philippe Morency, <u>Yonatan Bisk</u> , Daniel Fried, Graham Neubig, Maarten Sap <i>ArXiv</i>	2023
72.	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
73.	Reasoning about the Unseen for Efficient Outdoor Object Navigation Quanting Xie, Tianyi Zhang, Kedi Xu, Matthew Johnson-Roberson, Yonatan Bisk ArXiv	2023
74.	MOSAIC: Learning Unified Multi-Sensory Object Property Representations for Robot Perception Gyan Tatiya, Jonathan Francis, Ho-Hsiang Wu, Yonatan Bisk, Jivko Sinapov ArXiv	2023
75.	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

76.	Agents	nguage Models are Good Teachers for Embodied Ruslan Salakhutdinov, Amos Azaria, Yuanzhi Li, Tom	2023
77.	Singh Chaplot, Changan Chen, Claudia Anthony Francis, Chuang Gan, Kristen Aniruddha Kembhavi, Jacob Krantz, Si Maksymets, Roberto Martín-Martín, Ro Silvio Savarese, Manolis Savva, Mohit	Al Workshop sk, Tommaso Campari, Angel X. Chang, Devendra Pérez D'Arpino, Kiana Ehsani, Ali Farhadi, Li Fei-Fei, Grauman, David Hall, Winson Han, Unnat Jain, tefan Lee, Chengshu Li, Sagnik Majumder, Oleksandr bozbeh Mottaghi, Sonia Raychaudhuri, Mike Roberts, Shridhar, Niko Sünderhauf, Andrew Szot, Ben Talbot, n, Alexander Toshev, Joanne Truong, Luca Weihs, Jiajun	2022
78.	Multi-View Learning for Vision-a Qiaolin Xia, Xiujun Li, Chunyuan Li, Y A. Smith ArXiv	nd-Language Navigation onatan Bisk, Zhifang Sui, Jianfeng Gao, Yejin Choi, Noah	2020
79.	FIND: Identifying Functionally ar Sequences with Deep Neural Net Ranjani Murali, James Hemp, Victoria bioRxiv		2019
80.	CHALET: Cornell House Agent I Claudia Yan, Dipendra Misra, Andrew ArXiv Preprint 1801.07357	Learning Environment Bennett, Aaron Walsman, <u>Yonatan Bisk,</u> Yoav Artzi	2018
81.	Unsupervised Grammar Induction Yonatan Bisk University of Illinois at Urbana-Champa	n with Combinatory Categorial Grammars	2015
_	Thesis Committees		
_	PhD Lijun Yu	Alex Hauptmann	n, CMU
_	PhD Liangke Gui	Alex Hauptmann	ı, CMU
_	PhD Jielin Qiu	Lei Li & Christos Faloutsos	s, CMU
2023	MSR Mateo Guaman Castro	Sebastian Scherer	r, CMU
2023	PhD Kaixin Ma	Eric Nyberg	g, CMU
2023	PhD Nicholas Botzer	Tim Weninger, Notre	e 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	e, 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	k, CMU
2022	MLT Aishwarya Jadhav	Katia Sycara	a, CMU
2021	PhD Pengcheng Yin	Graham Neubig	g, CMU
2020	PhD Zihang Dai	Yiming Yang	g, CMU
2021	MLT Jing Wen	Katerina Fragkiadaki	i, CMU
2021	Qual Mohit Sharma	Oliver Kroemer	r, CMU
	Teaching		

2023 11-851 Talking to Robots 11-767 On-Device Machine Learning # Students: 16, FA

Co-Emma Strubell # Students: 69, FA

	11-777 MultiModal Machine Learning	Co-Daniel Fried # Students: 107, SP
2022	11-767 On-Device Machine Learning	Co-Emma Strubell # Students: 42, FA
	11-777 MultiModal Machine Learning	# Students: 94, SP
2021	11-767 On-Device Machine Learning	Co-Emma Strubell # Students: 31, FA
	11-777 MultiModal Machine Learning	# Students: 42, 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 h Ashe. Co-Written with Lana Yarosh and Tim Weninger,	igh-school age viewers. Hosted by Jabril $1yr$
2018	ACM Council on Diversity & Inclusion Investigating and ACM on behalf of underrepresented groups.,	d initiating institutional change within $\it 1yr$
_	Grace Hopper PC member Review submissions to Al Te	chnical Track, 1yr
2016	NCWIT Collegiate Award Review applications for the Na Technology's Collegiate Award honoring college women, IS	
2009	NCWIT Aspirations in Computing Review applications for	For the National Center for Women &
	Information Technology's Award for Aspirations in Comput	
	interested in CS, UIUC, ISI	<i>byrs</i>
_	Tech Junket/Women in CS Outreach for local Urbana-C <i>2yrs</i>	hampaign pre-college students, UIUC
2008	Freshman Research Mentor Mentored students to perfor	m research, UTexas 1yr
_	First Bytes Helped organize a summer camp for girls inter	•
_	Co-Founded Breakfast Bytes Professor talks for pre-colle	
_	CS Roadshow CS presentations at Austin middle and high	•
		,
	(Senior) Area Chair / Action Editor	
2024	Conference on Computer Vision and Pattern Recognit	tion (CVPR) CV
_	International Conference on Learning Representations	(ICLR) AI/ML
_	European Chapter of the Association for Computation	nal Linguistics (EACL) NLP
_	Senior AE: ACL Rolling Review (ARR)	NLP
_	AE: Transactions on Machine Learning Research (TM	LR) AI/ML
2023	Neural Information Processing Systems (NeurIPS)	AI/ML
_	International Conference on Machine Learning (ICML) AI/ML
_	AE: Transactions on Machine Learning Research (TM	LR) AI/ML
-	Senior AE: ACL Rolling Review (ARR)	NLP
_	Ethics Co-Chair: Association for Computational Lingui	istics (ACL) NLP
_	Empirical Methods in Natural Language Proc (EMNL	P) NLP
2022	International Conference on Learning Representations	
_	Senior MR: Association for the Advancement of Artific	- , , ,
_	Senior AC: Empirical Methods in Natural Language P	,
_	AE: Transactions on Machine Learning Research (TM	·
_	Senior AE: ACL Rolling Review (ARR)	NLP
_	Neural Information Processing Systems (NeurIPS)	AI/ML
2021	International Conference on Learning Representations	` '
_	Association for Computational Linguistics (ACL)	NLP
_	Empirical Methods in Natural Language Proc (EMNL	
_	Neural Information Processing Systems (NeurIPS)	AI/ML

2020 - - 2019 2018 2016	Associati Neural In Asia-Paci Associati Internatio	ling Review (ARR) on for Computational Linguistics (ACL) nformation Processing Systems (NeurIPS) ific chapter of the Association for Computational Linguistics (AACL) on for Computational Linguistics (ACL) onal Conference on Computational Linguistics ice on Lexical and Computational Semantics (*SEM)	NLP NLP AI/ML NLP NLP NLP NLP
NII D	Review		2021
NLP	ARR ACL	Association for Computational Linguistics Rolling Review Association for Computational Linguistics	2021 2017, 2018
	CL	Computational Linguistics Journal	2017, 2018 2017 – 2022
	CoLing	International Conference on Computational Linguistics	2017 – 2022
	CoNLL	Conference on Computational Natural Language Learning	2016 – 2018
	EACL	European Chapter of the Association for Computational Linguistics	2014, 17, 20
		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 202	9 – 2021,2023
	AURO	Autonomous Robots	2022
	RSS	Robotics: Science and Systems	2022
	HRI	Human Robot Interaction	2020 - 2024
	ICRA		019,2023, 2024
	IJRR	International Journal of Robotics Research	2017
	IROS	IEEE/RSJ International Conference on Intelligent Robots and Systems	
	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
G) /		Neural Information Processing Systems	2018 – 2019
CV	CVPR	Computer Vision and Pattern Recognition	2020, 2023
	Organia	zation (Workshops and Conference)	
2022		p Embodied AI Workshop – Challenge Organizer Vision and Pattern Recognition	
2021		p Embodied AI Workshop – Challenge Organizer Vision and Pattern Recognition	
2020		p Embodied Vision, Actions & Language Workshop	
2020		Conference on Computer Vision	
-	•	p Workshop on Dataset Curation and Security	
2019		p Spatial Language Understanding and Grounded communication for Robot perican Chapter of the Association for Computational Linguistics	tics
2018		ce 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 Koç University Al center

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

Guest Lecture: Embodiment for NLP Univ of Pennsylvania

Guest Lecture: Multimodality in NLP UWashington Linguistics

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

The University of Texas at Austin - Forum for AI

Cornell Learning Machines seminar

Stanford NLP seminar

SRI Center for Vision Technology Lab Panel Embodied Al

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

Invited Talk University of California, Irvine AI/ML Seminar

Invited Talk Pacific Northwest National Laboratory

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