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						
2022 –	Visiting Professor M	- ,	damental AI Resea	rch (FAIR))		w/ Dhru	ıv Batra
2021 -	Consulting Professor Microsoft 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/ Yejin Choi	
2015 –	Postdoctoral Schola Information Sciences Ins		Iniversity of Souther	n California			w/ Daniel Marcu	
	Education							
2015	PhD in Computer S Thesis: Unsupervised Advisor: Julia Hockenm Committee: Jason Eisne	d Gramı aier	mar Induction wit	h Combir			nmars	
2009	BS in Computer Sci Thesis: The Necessity Neuroevolution Advisor: Risto Miikkula	of Sepa		Logic Wh	en Grounding Lan		using	
	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	trol	,		RI	2021 -
PhD	Tiffany Min		Embodiment		(co-R Salakhutdi	nov)	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 –
_	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 Shivam Tripathy	or Elder	he/him he/him he/him	(son) Atharva Shaolin k			he/him he/him	2023
MLT	Jimin Sun	she/her	Embodied Dialogu	ue		LTI	2022	- 2023
Ugrad	Xiang Fan		Transformer Effici	ency	(co-E Strubell)			2022
Intern	Andy Liu		Theory-of-Mind		(co-G Neubig)			2022
Intern	Deogratias Amani	he/him	Grounding					2022

MRSD	Modular Teleop with Autor	- `					2022
	Jashkumar Diyora	he/him		angopadhyay		she/her	
	Jigar Patel	he/him	Prakhar	Pradeep		he/him	
MCDC	Shivani Sivakumar	she/her					2022
MCDS	Embodied Navigation and		IZahaamu	a Mahajan		. /	2022
	Adhokshaja Madhwaraj	he/him	_	a Mahajan Dadau		he/him	
	Sai Vishwas Padigi	he/him	Vineeth	•		he/him	
MCDC	Malaika Vijay	she/her	Zneng (Jessica) Zhong	;	she/her	2022
MCDS	Embodied Dialogue and To Xinyue Chen		Nikhil G	unto		1 /1 ·	2022
	•	she/her	Shubhan	•		he/him	
	Benny Jiang Prasoon Varshney	he/him	Silubilali	I FIIdi		he/him	
MCDS	Novel Concept Learning	he/him					2022
MCD3	Bharani Ujjaini Kempaiah	she/her	Linyi Li			she/her	2022
. 46	•	sne/ner	Lillyi Li		,	sne/nei	2022
MSAII	Visual Patent Search Suchong Dong	she/her	Zhiyuan	Guo		he/him	2022
	Mansi Goyal	she/her		lendez Simon		she/her	
	Sreenidhi Sundaram	she/her		n Den Berghe		he/him	
MLT		Multimodal Re		il Dell Delglie	LTI	,	- 2022
MLT		Embodied Visi	•		LTI		- 2022
	,		•	(0 1/			
MS	Xiaoyu (Erin) Zhang she/her			(co-O Kroemer)	5th	2021 -	- 2022
Ugrad	Feiyu (Gavin) Zhu	Video Summa	rization	(co-C Paxton)			2021
Intern	Melanie Sclar	Symmetric Th	eory-of-Mind	(co-G Neubig)			2021
Intern	Blessing Bassey	TextVQA					2021
	Journal Publications						
1.	Training Vision-Language 1 Liangke Gui, Yingshan Chang, G Yonatan Bisk Transactions on Machine Learni	Qiuyuan Huang, S			infeng (Gao,	2023
2.	The Return of Lexical Depe Hao Zhu, Yonatan Bisk, Grahan	endencies: Ne	ural Lexicaliz	zed PCFGs			2020
	Transactions of the Association		al Linguistics				
3.	An HDP Model for Inducin	g Combinator	y Categorial	Grammars			2013
	Yonatan Bisk, Julia Hockenmaie Transactions of the Association		al Linguistics				
	Transactions of the Association	Tor Computation	ar Emgaistics				
	Conference Publication	ons					
4.	SOTOPIA: Interactive Eval Xuhui Zhou, Hao Zhu, Leena M						2023
	Morency, <u>Yonatan Bisk</u> , Daniel I The Twelfth International Confe	Fried, Graham No	eubig, Maarten	Sap			
5.	WebArena: A Realistic We				ents		2023
J.	Shuyan Zhou, Frank F. Xu, Hao Yonatan Bisk, Daniel Fried, Uri	Zhu, Xuhui Zho	ou, Robert Lo,			eng,	2020
	The Twelfth International Confe	erence on Learnin	g Representati	ons			
6.	Spatial-Language Attention Priyam Parashar, Vidhi Jain, Xia Paxton				, Chris		2023
	Conference on Robot Learning						
7.	SPAE: Semantic Pyramid A	AutoEncoder fo	or Multimod	al Generation wit	h Froz	en	2023
	LLMs Lijun Yu, Yong Cheng, Zhiruo V A. Ross, Irfan Essa, <u>Yonatan Bis</u> Lu Jiang	_			_		
	Thirty-seventh Conference on N	eural Information	Processing Sy	/stems			

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

22.	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
23.	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
24.	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
25.	WebQA: Multihop and Multimodal QA Yingshan Chang, Mridu Narang, Hisami Suzuki, Guihong Cao, Jianfeng Gao, Yonatan Bisk Conference on Computer Vision and Pattern Recognition (Oral)	2022
26.	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
27.	Language Grounding with 3D Objects Jesse Thomason, Mohit Shridhar, Yonatan Bisk, Chris Paxton, Luke Zettlemoyer Conference on Robot Learning	2021
28.	TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment Jianwei Yang, Yonatan Bisk, Jianfeng Gao International Conference on Computer Vision	2021
29.	Few-shot Language Coordination by Modeling Theory of Mind Hao Zhu, Graham Neubig, Yonatan Bisk The Thirty-eighth International Conference on Machine Learning	2021
30.	Grounding 'Grounding' in NLP Khyathi Raghavi Chandu, Yonatan Bisk, Alan W Black Findings of The 2021 Conference of the Association for Computational Linguistics	2021
31.	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
32.	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
33.	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
34.	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
35.	Experience Grounds Language Yonatan Bisk, Ari Holtzman, Jesse Thomason, Jacob Andreas, Yoshua Bengio, Joyce Chai, Mirella Lapata, Angeliki Lazaridou, Jonathan May, Aleksandr Nisnevich, Nicolas Pinto, Joseph Turian	2020
36.	Conference on Empirical Methods in Natural Language Processing (EMNLP) (Oral) 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

37.	ALFRED: A Benchmark for Interpreting Grounded Instructions for Everyday Tasks	2020
	Mohit Shridhar, Jesse Thomason, Daniel Gordon, <u>Yonatan Bisk</u> , Winson Han, Roozbeh Mottaghi, Luke Zettlemoyer, Dieter Fox	
	The IEEE Conference on Computer Vision and Pattern Recognition (CVPR)	
38.	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
39.	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
40.	Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing Defending Against Neural Fake News Rowan Zellers, Ari Holtzman, Hannah Rashkin, Yonatan Bisk, Ali Farhadi, Franziska Roesner, Yejin Choi	2019
	Thirty-third Conference on Neural Information Processing Systems	
41.	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
42.	Early Fusion for Goal Directed Robotic Vision Aaron Walsman, <u>Yonatan Bisk</u> , Saadia Gabriel, Dipendra Misra, Yoav Artzi, Yejin Choi, Dieter Fox	2019
	2019 IEEE/RSJ International Conference on Intelligent Robots and Systems	
43.	 RoboCup Best Paper Award finalist HellaSwag: Can a Machine Really Finish Your Sentence? Rowan Zellers, Ari Holtzman, Yonatan Bisk, Ali Farhadi, Yejin Choi 	2019
	Association for Computational Linguistics	
44.	From Recognition to Cognition: Visual Commonsense Reasoning Rowan Zellers, Yonatan Bisk, Ali Farhadi, Yejin Choi The 1555 Conference of Community Vision and Pattern Recognition (CVPR) (Conf)	2019
45.	The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) (Oral) Tactical Rewind: Self-Correction via Backtracking in Vision-and-Language	2019
	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 (CVPR) (Oral)	2010
46.	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
47.	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	2019
40	Linguistics Benchmarking Hierarchical Script Knowledge	2019
48.	Yonatan Bisk, Jan Buys, Karl Pichotta, Yejin Choi	2019
	Annual Conference of the North American Chapter of the Association for Computational Linguistics (Oral)	
49.	Character-based Surprisal as a Model of Reading Difficulty in the Presence of	2019
	Errors Michael Hahn, Frank Keller, <u>Yonatan Bisk</u> , Yonatan Belinkov The 41st Annual Meeting of the Cognitive Science Society (Oral)	
50.	SWAG: A Large-Scale Adversarial Dataset for Grounded Commonsense Inference Rowan Zellers, Yonatan Bisk, Roy Schwartz, Yejin Choi Conference on Empirical Methods in Natural Language Processing (EMNLP) (Oral)	2018
51.	Synthetic and Natural Noise Both Break Neural Machine Translation	2018
	Yonatan Belinkov, <u>Yonatan Bisk</u>	2010
	6th International Conference on Learning Representations (Oral)	

52.	<u>Yonatan Bisk</u> , Kevin Shih, Yejin Choi, Daniel Marcu Thirty-Second Conference on Artificial Intelligence (AAAI-18)	2018
53.	Natural Language Inference from Multiple Premises Alice Lai, Yonatan Bisk, Julia Hockenmaier Eighth International Joint Conference on Natural Language Processing (Oral)	2017
54.	Natural Language Communication with Robots Yonatan Bisk, Deniz Yuret, Daniel Marcu 15th Annual Conference of the North American Chapter of the Association for	2016
55.	Computational Linguistics (Oral) Supertagging with LSTMs Ashish Vaswani, Yonatan Bisk, Kenji Sagae, Ryan Musa 15th Annual Conference of the North American Chapter of the Association for	2016
56.	Computational Linguistics (Short Papers) (Oral) 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
57.	Probing the Linguistic Strengths and Limitations of Unsupervised Grammar 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)	2015
58.	Labeled Grammar Induction with Minimal Supervision 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)	2015
59.	Simple Robust Grammar Induction with Combinatory Categorial Grammar Yonatan Bisk, Julia Hockenmaier Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)	2012
60.	Document-Topic Hierarchies from Document Graphs Tim Weninger, Yonatan Bisk, Jiawei Han 21st ACM international conference on Information and knowledge management (CIKM 2012)	2012
61.	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	
62.	MAEA: Multimodal Attribution for Embodied Al Vidhi Jain, Jayant Sravan Tamarapalli, Sahiti Yerramilli, <u>Yonatan Bisk</u> Progress and Challenges in Building Trustworthy Embodied Al at NeurIPS 2022	2022
63.	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
64.	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
65.	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
66.	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

67.	Inducing Grammars with and for Neural Machine Translation Ke Tran, Yonatan Bisk 2nd Workshop on Neural Machine Translation	2018
68.	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
69.	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
70.	Unsupervised Neural Hidden Markov Models Ke Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu, Kevin Knight Workshop on Structured Prediction for NLP (Oral)	2016
71.	Induction of Linguistic Structure with Combinatory Categorial Grammars Yonatan Bisk, Julia Hockenmaier NAACL HLT Workshop on Induction of Linguistic Structure	2012
	Tech Reports	
72.	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
73.	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
74.	Reasoning about the Unseen for Efficient Outdoor Object Navigation Quanting Xie, Tianyi Zhang, Kedi Xu, Matthew Johnson-Roberson, Yonatan Bisk	2023
	and the state of t	

ArXiv

75.	MOSAIC: Learning Unified Multi-Se Robot Perception Gyan Tatiya, Jonathan Francis, Ho-Hsiang ArXiv	wu, Yonatan Bisk, Jivko Sinapov	2023
76.	Plan, Eliminate, and Track – Langua Agents	age Models are Good Teachers for Embodied	2023
	Yue Wu, So Yeon Min, <u>Yonatan Bisk</u> , Rus Mitchell, Shrimai Prabhumoye <i>ArXiv</i>	an Salakhutdinov, Amos Azaria, Yuanzhi Li, Tom	
77.	Singh Chaplot, Changan Chen, Claudia Pé Anthony Francis, Chuang Gan, Kristen Gra Aniruddha Kembhavi, Jacob Krantz, Stefa Maksymets, Roberto Martín-Martín, Roozl 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 oeh Mottaghi, Sonia Raychaudhuri, Mike Roberts, dhar, Niko Sünderhauf, Andrew Szot, Ben Talbot, klexander Toshev, Joanne Truong, Luca Weihs, Jiajun	2022
78.	Multi-View Learning for Vision-and-Qiaolin Xia, Xiujun Li, Chunyuan Li, Yona A. Smith <i>ArXiv</i>	Language Navigation tan Bisk, Zhifang Sui, Jianfeng Gao, Yejin Choi, Noah	2020
79.	FIND: Identifying Functionally and Sequences with Deep Neural Network Ranjani Murali, James Hemp, Victoria OrphioRxiv		2019
80.	CHALET: Cornell House Agent Lea Claudia Yan, Dipendra Misra, Andrew Ben ArXiv Preprint 1801.07357	r ning Environment nett, Aaron Walsman, <u>Yonatan Bisk,</u> Yoav Artzi	2018
81.	Unsupervised Grammar Induction w 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	
_	PhD Jielin Qiu	Lei Li & Christos Faloutsos	
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		, CMU
2022	PhD Evangelia Spiliopoulou Ed Hovy, CMU		, CMU
2022	PhD Dheeraj Rajagopal	Ed Hovy	, CMU
2022	PhD Volkan Cirik	Louis-Philippe Morency and Taylor Berg-Kirkpatrick	
2022	MLT Aishwarya Jadhav	Katia Sycara	
2021	PhD Pengcheng Yin	Graham Neubig	
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	# Stude	nts: 16, FA
_0_0	11-767 On-Device Machine Learning	Co-Emma Strubell # Stude	
	11-777 MultiModal Machine Learning	Co-Daniel Fried # Studen	
2022	11-767 On-Device Machine Learning	Co-Emma Strubell # Stude	
	11-777 MultiModal Machine Learning		nts: 94, SP
2021	11-767 On-Device Machine Learning	Co-Emma Strubell # Stude	
	11-777 MultiModal Machine Learning		nts: 42, SP
	6	<i>H</i>	, -
	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. Hoste	ed by Jabril <i>1yr</i>
2018	ACM Council on Diversity & Inclusion Investigating and	l initiating institutional chang	ge within
	ACM on behalf of underrepresented groups.,		1yr
_	Grace Hopper PC member Review submissions to Al Tec		1yr
2016	NCWIT Collegiate Award Review applications for the Na Technology's Collegiate Award honoring college women, ISI		nformation <i>3yrs</i>
2009	NCWIT Aspirations in Computing Review applications f Information Technology's Award for Aspirations in Comput interested in CS, UIUC, ISI		
_	Tech Junket/Women in CS Outreach for local Urbana-C	hampaign pre-college student	-
	2yrs		
2008	Freshman Research Mentor Mentored students to perfor	m research, UTexas	1yr
_	First Bytes Helped organize a summer camp for girls inter	ested in CS, UTexas	
_	Co-Founded Breakfast Bytes Professor talks for pre-colle	ege 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 Recognit	ion (CVPR)	CV
_	International Conference on Learning Representations	(ICLR)	AI/ML
-	European Chapter of the Association for Computation	al 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 Lingu	istics (ACL)	NLP
-	Empirical Methods in Natural Language Proc (EMNL	P)	NLP
2022	International Conference on Learning Representations	(ICLR)	AI/ML
_	Senior MR: Association for the Advancement of Artific	cial Intelligence (AAAI)	AI/ML
_	Senior AC: Empirical Methods in Natural Language P	roc (EMNLP)	NLP
_	AE: Transactions on Machine Learning Research (TM	LR)	AI/ML
_	Senior AE: ACL Rolling Review (ARR)		NLP
_	Neural Information Processing Systems (NeurIPS)		AI/ML

2021	Internation	onal Conference on Learning Representations (ICLR)	AI/ML		
_	Associati	NLP			
_	Empirica	NLP			
_	-	AI/ML			
_		Neural Information Processing Systems (NeurIPS) ACL Rolling Review (ARR)			
2020	Associati	NLP			
_	Neural Ir	AI/ML			
_		ific chapter of the Association for Computational Linguistics (AACI	,		
2019		on for Computational Linguistics (ACL)	NLP		
2018	Internation	onal Conference on Computational Linguistics	NLP		
2016		ce on Lexical and Computational Semantics (*SEM)	NLP		
		. ,			
	Review	er			
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 – 2024		
	ICRA	International Conference on Robotics and Automation	2019,2023, 2024		
	IJRR	International Journal of Robotics Research	2017		
	IROS	IEEE/RSJ International Conference on Intelligent Robots and System	ns <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		
	·	(\(\lambda\) = \(\lambda\)			
2022	Organization (Workshops and Conference)				
2022	Workshop Embodied AI Workshop – Challenge Organizer Computer Vision and Pattern Recognition				
2021	Workshop Embodied AI Workshop – Challenge Organizer Computer Vision and Pattern Recognition				
2020		p Embodied Vision, Actions & Language Workshop 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

Following Instructions and Asking Questions Goal Conditioned RL Workshop @ NeurIPS

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