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/ Jianfeng Gao		
2017 –	Postdoctoral Schola						, -	
	University of Washingto		n Institute for Artifi	cial Intellige	ence		w/ Yejin 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 I	nteraction				2	2022
	Adhokshaja Madhwaraj	he/him	_	a Mahajan	$h\epsilon$	e/him	
	Sai Vishwas Padigi	he/him	Vineeth	•	$h\epsilon$	e/him	
	Malaika Vijay	she/her	Zheng (J	Jessica) Zhong	sh	e/her	
MCDS	Embodied Dialogue and To		NULL II C				2022
	Xinyue Chen	she/her	Nikhil G	•		e/him	
	Benny Jiang	he/him	Shubhan	n Phal	he	e/him	
MCDC	Prasoon Varshney	he/him					2000
MCDS	Novel Concept Learning	- 4	12. 212				2022
	Bharani Ujjaini Kempaiah	she/her	Linyi Li		sh	e/her	
MSAII	Visual Patent Search	1 /1	7hiyuan	Cua	,		2022
	Suchong Dong Mansi Goyal	she/her she/her	Zhiyuan Marta M	lendez Simon		e/him	
	Sreenidhi Sundaram	she/her		n Den Berghe		e/her	
MLT		Multimodal Reas		ii Deli bergile	LTI	e/him 2020 - 20	122
			-				
MLT		Embodied Visual	-	(0.1/	LTI	2020 – 20	
MS	Xiaoyu (Erin) Zhang she/her			(co-O Kroemer)	5th	2021 – 20	
Ugrad	Feiyu (Gavin) Zhu	Video Summariza	ation	(co-C Paxton)		20	021
Intern	Melanie Sclar	Symmetric Theor	ry-of-Mind	(co-G Neubig)		20	021
Intern	Blessing Bassey	<i>TextVQA</i>				20	021
_	Journal Publications						
	Training Vision-Language 7	·uanafaumana fuan	n Contion	_		2	2023
1.	Liangke Gui, Yingshan Chang, G				feng Ga		1023
	Yonatan Bisk	D /					
	Transactions on Machine Learni	_					
2.	The Return of Lexical Depo		al Lexicaliz	zed PCFGs		2	2020
	Hao Zhu, <u>Yonatan Bisk</u> , Grahan Transactions of the Association		Linguistics				
3.	An HDP Model for Inducin		Categorial	Grammars		2	2013
	Yonatan Bisk, Julia Hockenmaie						
	Transactions of the Association	for Computational	Linguistics				
	Conference Publication	one.					
4			alaus Dah	-		0	0000
4.	Spatial-Language Attention Priyam Parashar, Vidhi Jain, Xia				Chris	2	2023
	Paxton	ionan Zhang, say v	uitii, ouiii i	owers, <u>ronatan bisk</u> ,	C11113		
	Conference on Robot Learning						
5.	HomeRobot: Open-Vocabu	lary Mobile Man	inulation			2	2023
0.	Sriram Yenamandra, Arun Rama			stin Wang, Mukul Kha	ınna,	_	-0-0
	Theophile Gervet, Tsung-Yen Ya	ng, Vidhi Jain, Alex	kander Willi	am Clegg, John Turne	r, Zsolt		
	Kira, Manolis Savva, Angel Cha	ng, Devendra Singh	Chaplot, D	hruv Batra, Roozbeh I	Mottagl	ni,	
	Yonatan Bisk, Chris Paxton						
	Conference on Robot Learning		ير بند .				
6.	HomeRobot Open Vocab N				C: 1	2	2023
	Sriram Yenamandra, Arun Rama				_	Dam	
	Chaplot, Gunjan Chhablani, Alex Ramrakhya, Andrew Szot, Tsung						
	Kira, Dhruv Batra, Roozbeh Mo	-	_	· ·	, ∠ 301		
	Thirty-seventh Conference on N	_			rack		
7.	EXCALIBUR: Encouraging			•		2	2023
• •	Hao Zhu, Raghav Kapoor, So Ye				m Neul		
	Yonatan Bisk, Aniruddha Kembl	navi, Luca Weihs		-			
	Conference on Computer Vision	and Pattern Recog	nition				

8.	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
9.	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
10.	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
11.	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
12.	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
13.	Transformers are Adaptable Task Planners Vidhi Jain, Yixin Lin, Eric Undersander, Yonatan Bisk, Akshara Rai Conference on Robot Learning	2022
14.	Symmetric Machine Theory of Mind Melanie Sclar, Graham Neubig, Yonatan Bisk 39th International Conference on Machine Learning	2022
15.	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
16.	Simulated Language Learning from Communicative Goals and Linguistic Input Hao Zhu, Yonatan Bisk, Graham Neubig Annual Meeting of the Cognitive Science Society (Oral)	2022
17.	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
18.	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
19.	FILM: Following Instructions in Language with Modular Methods So Yeon Min, Devendra Singh Chaplot, Pradeep Ravikumar, <u>Yonatan Bisk</u> , Ruslan Salakhutdinov	2022
20.	The Tenth International Conference on Learning Representations WebQA: Multihop and Multimodal QA Yingshan Chang, Mridu Narang, Hisami Suzuki, Guihong Cao, Jianfeng Gao, Yonatan Bisk Conference on Computer Vision and Pattern Recognition (Oral)	2022
21.	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
22.	Language Grounding with 3D Objects Jesse Thomason, Mohit Shridhar, Yonatan Bisk, Chris Paxton, Luke Zettlemoyer Conference on Robot Learning	2021
23.	TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment Jianwei Yang, Yonatan Bisk, Jianfeng Gao International Conference on Computer Vision	2021
24.	Few-shot Language Coordination by Modeling Theory of Mind Hao Zhu, Graham Neubig, Yonatan Bisk The Thirty-eighth International Conference on Machine Learning	2021

25.	Grounding 'Grounding' in NLP Khyathi Raghavi Chandu, Yonatan Bisk, Alan W Black Findings of The 2021 Conference of the Association for Computational Linguistics	2021
26.	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 Linguistics (Oral)	2021
27.	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
28.	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
29.	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
30.	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
31.	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
32.	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
33.	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
34.	Robust Navigation with Language Pretraining and Stochastic Sampling Xiujun Li, Chunyuan Li, Qiaolin Xia, Yonatan Bisk, Asli Celikyilmaz, Jianfeng Gao, Noah A. Smith, Yejin Choi Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing	2019
35.	Defending Against Neural Fake News Rowan Zellers, Ari Holtzman, Hannah Rashkin, Yonatan Bisk, Ali Farhadi, Franziska Roesner, Yejin Choi Thirty-third Conference on Neural Information Processing Systems	2019
36.	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
37.	Early Fusion for Goal Directed Robotic Vision Aaron Walsman, Yonatan Bisk, Saadia Gabriel, Dipendra Misra, Yoav Artzi, Yejin Choi, Dieter Fox 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems - RoboCup Best Paper Award finalist	2019
38.	HellaSwag: Can a Machine Really Finish Your Sentence? Rowan Zellers, Ari Holtzman, Yonatan Bisk, Ali Farhadi, Yejin Choi Association for Computational Linguistics	2019

39.	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
40.	Tactical Rewind: Self-Correction via Backtracking in Vision-and-Language Navigation Liyiming Ke, Xiujun Li, Yonatan Bisk, Ari Holtzman, Zhe Gan, Jingjing Liu, Jianfeng Gao, Yejin Choi, Siddhartha Srinivasa The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) (Oral)	2019
41.	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
42.	Shifting the Baseline: Single Modality Performance on Visual Navigation & QA Jesse Thomason, Daniel Gordon, Yonatan Bisk Annual Conference of the North American Chapter of the Association for Computational Linguistics	2019
43.	Benchmarking Hierarchical Script Knowledge Yonatan Bisk, Jan Buys, Karl Pichotta, Yejin Choi Annual Conference of the North American Chapter of the Association for Computational Linguistics (Oral)	2019
44.	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
45.	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
46.	Synthetic and Natural Noise Both Break Neural Machine Translation Yonatan Belinkov, Yonatan Bisk 6th International Conference on Learning Representations (Oral)	2018
47.	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
48.	Natural Language Inference from Multiple Premises Alice Lai, Yonatan Bisk, Julia Hockenmaier Eighth International Joint Conference on Natural Language Processing (Oral)	2017
49.	Natural Language Communication with Robots Yonatan Bisk, Deniz Yuret, Daniel Marcu 15th Annual Conference of the North American Chapter of the Association for	2016
50.	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 Computational Linguistics (Short Papers) (Oral)	2016
51.	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
52.	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
53.	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
54.	Simple Robust Grammar Induction with Combinatory Categorial Grammar Yonatan Bisk, Julia Hockenmaier Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)	2012

Document-Topic Hierarchies from Document Graphs Tim Weninger, Yonatan Bisk, Jiawei Han 21st ACM international conference on Information and knowledge management (CIKM)	2012
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	
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
Tackling AlfWorld with Action Attention and Common Sense from Language	2022
Models Yue Wu, So Yeon Min, Yonatan Bisk, Ruslan Salakhutdinov, Shrimai Prabhumoye Language and Reinforcement Learning Workshop at NeurIPS 2022	
Worst of Both Worlds: Biases Compound in Pre-trained Vision-and-Language Models Tejas Srinivasan, Yonatan Bisk Ath Workshop on Gender Bias in Natural Language Processing	2022
KB-VLP: Knowledge Based Vision and Language Pretraining Kezhen Chen, Qiuyuan Huang, Yonatan Bisk, Daniel McDuff, Jianfeng Gao	2021
	2020
Videos Frank F. Xu, Lei Ji, Botian Shi, Junyi Du, Graham Neubig, <u>Yonatan Bisk</u> , Nan Duan Workshop on NLP Beyond Text	
Inducing Grammars with and for Neural Machine Translation Ke Tran, Yonatan Bisk 2nd Workshop on Neural Machine Translation	2018
Bridging HMMs and RNNs through Architectural Transformations Jan Buys, Yonatan Bisk, Yejin Choi	2018
, , , , , , , , , , , , , , , , , ,	2016
Acquisition Yonatan Bisk, Daniel Marcu, William Wong	2010
	2016
Ke Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu, Kevin Knight Workshop on Structured Prediction for NLP (Oral)	2010
Induction of Linguistic Structure with Combinatory Categorial Grammars Yonatan Bisk, Julia Hockenmaier NAACL HLT Workshop on Induction of Linguistic Structure	2012
Tech Reports	
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
SPAE: Semantic Pyramid AutoEncoder for Multimodal Generation with Frozen LLMs Lijun Yu, Yong Cheng, Zhiruo Wang, Vivek Kumar, Wolfgang Macherey, Yanping Huang, David A. Ross, Irfan Essa, Yonatan Bisk, Ming-Hsuan Yang, Kevin Murphy, Alexander G. Hauptmann, Lu Jiang	2023
	Tim Weninger, Yonatan Bisk, Jiawei Han 2012) Normal-form parsing for CCGs with generalized composition and type-raising Julia Hockemaier, Yonatan Bisk 23rd International Conference on Computational Linguistics (Coling 2010) Workshop Publications MAEA: Multimodal Attribution for Embodied AI Vidhi Jain, Jayant Sravan Tamarapalli, Sahiti Verramilli, Yonatan Bisk Progress and Challenges in Building Trustworthy Embodied AI at NeurIPS 2022 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 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 KB-VLP: Knowledge Based Vision and Language Processing KB-VLP: Knowledge Based Vision and Language Pretraining Rezhen Chen, Qiuyuan Huang, Yonatan Bisk, Daniel McDuff, Jianfeng Gao ICML21 Workshop on Self-Supervised Learning 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 Inducing Grammars with and for Neural Machine Translation Ke Tran, Yonatan Bisk 23rd Conference on Neural Information Processing Systems (NIPS 2018), IRASL workshop Towards a Dataset for Human Computer Communication via Grounded Language Acquisition Yonatan Bisk, Daniel Marcu, William Wong AAAI 2016 Workshop on Symbiotic Cognitive Systems Unsupervised Neural Hidden Markov Models Ke Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu, Kevin Knight Workshop on Induction of Linguistic Structure Tech Reports 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 APKiv SPAE: Semantic Pyramid AutoEncoder for Multimodal Generation with Frozen LLMs Lijun

69.	•	Algorithms by Studying Papers and Reasoning Iin, Yonatan Bisk, Ruslan Salakhutdinov, Amos Azaria,	2023
70.	Plan, Eliminate, and Track – Language Models are Good Teachers for Embodied Agents Yue Wu, So Yeon Min, Yonatan Bisk, Ruslan Salakhutdinov, Amos Azaria, Yuanzhi Li, Tom Mitchell, Shrimai Prabhumoye ArXiv		2023
71.	The Framework Tax: Disparities Be Deployment Jared Fernandez, Jacob Kahn, Clara Na, JarXiv	Yonatan Bisk, Emma Strubell	2023
72.	Singh Chaplot, Changan Chen, Claudia P. Anthony Francis, Chuang Gan, Kristen G. Aniruddha Kembhavi, Jacob Krantz, Stef Maksymets, Roberto Martín-Martín, Rooz Silvio Savarese, Manolis Savva, Mohit Sh	I Workshop Tommaso Campari, Angel X. Chang, Devendra Érez D'Arpino, Kiana Ehsani, Ali Farhadi, Li Fei-Fei, Fauman, David Hall, Winson Han, Unnat Jain, Fan Lee, Chengshu Li, Sagnik Majumder, Oleksandr Fischeh Mottaghi, Sonia Raychaudhuri, Mike Roberts, Fridhar, Niko Sünderhauf, Andrew Szot, Ben Talbot, Alexander Toshev, Joanne Truong, Luca Weihs, Jiajun	2022
73.	Multi-View Learning for Vision-and Qiaolin Xia, Xiujun Li, Chunyuan Li, Yon: A. Smith ArXiv	- Language Navigation atan Bisk, Zhifang Sui, Jianfeng Gao, Yejin Choi, Noah	2020
74.	FIND: Identifying Functionally and Sequences with Deep Neural Netw Ranjani Murali, James Hemp, Victoria Or bioRxiv		2019
75.	CHALET: Cornell House Agent Lea Claudia Yan, Dipendra Misra, Andrew Be ArXiv Preprint 1801.07357	n <mark>rning Environment</mark> nnett, Aaron Walsman, <u>Yonatan Bisk,</u> Yoav Artzi	2018
76.	Unsupervised Grammar Induction v Yonatan Bisk University of Illinois at Urbana-Champaig	vith Combinatory Categorial Grammars	2015
	Thesis Committees		
_	PhD Lijun Yu	Alex Hauptmann	, CMU
_	PhD Liangke Gui	Alex Hauptmann	, CMU
2023	MSR Mateo Guaman Castro	Sebastian Scherer	, CMU
2023	PhD Kaixin Ma	Eric Nyberg	, CMU
2023	PhD Nicholas Botzer	Tim Weninger, Notre	
2023	PhD Naoki Otani	Ed Hovy	
2023	PhD Dylan Ebert	Ellie Pavlick,	
2022	PhD Shikib Mehri	Maxine Eskenazi	
2022	PhD Shruti Palaskar	Alan Black and Florian Metze	
2022	PhD Evangelia Spiliopoulou	Ed Hovy	
2022	PhD Dheeraj Rajagopal	Ed Hovy	
2022	PhD Volkan Cirik	Louis-Philippe Morency and Taylor Berg-Kirkpatrick	
2022	MLT Aishwarya Jadhav PhD Pengcheng Yin	Katia Sycara Graham Neubig	
2021 2020	PhD Zihang Dai	Yiming Yang	
2020	MLT Jing Wen	Katerina Fragkiadaki	
-021		Naterina i ragniadani	,

	Teaching		
2023	11-851 Talking to Robots	# Students: ,	ΕΛ
2023	11-767 On-Device Machine Learning	# Students: , Co-Emma Strubell # Students: ,	
	11-777 MultiModal Machine Learning	Co-Daniel Fried # Students: 107,	
2022	11-767 On-Device Machine Learning	Co-Emma Strubell # Students: 42,	
2022	11-777 MultiModal Machine Learning	# Students: 94,	
2021	11-767 On-Device Machine Learning	Co-Emma Strubell # Students: 31,	
2021	11-777 MultiModal Machine Learning	# Students: 42,	
	,,,	// Coddonido: 12,	٠.
	Diversity and Inclusion		
2022	NAACL 2022 DEI Co-Chair		
2021	Restructuring of LTI PhD Admissions,		2yr
2020	LTI DEI Committee,	2	yrs
2019	CrashCourse AI Educational YouTube series targeted at Ashe. Co-Written with Lana Yarosh and Tim Weninger,		bril 1 <i>yr</i>
2018	ACM Council on Diversity & Inclusion Investigating a ACM on behalf of underrepresented groups.,		ı 1yr
_	Grace Hopper PC member Review submissions to AI T	echnical Track,	1yr
2016	NCWIT Collegiate Award Review applications for the National Technology's Collegiate Award honoring college women, It		ion <i>yrs</i>
2009	NCWIT Aspirations in Computing Review applications Information Technology's Award for Aspirations in Computinterested in CS, UIUC, ISI	for the National Center for Women & iting which supports high-school girls	-
-	Tech Junket/Women in CS Outreach for local Urbana- 2yrs		-
2008	Freshman Research Mentor Mentored students to perfo	orm research, UTexas	1yr
_	First Bytes Helped organize a summer camp for girls into		,
_	Co-Founded Breakfast Bytes Professor talks for pre-co		1yr
-	CS Roadshow CS presentations at Austin middle and hig	rh schools, UTexas	1yr
_	(Senior) Area Chair / Action Editor		
2024	Conference on Computer Vision and Pattern Recogn	ition (CVPR)	CV
_	International Conference on Learning Representation	s (ICLR) AI/	ΜL
2023	Neural Information Processing Systems (NeurIPS)	AI/	ΜL
_	International Conference on Machine Learning (ICM	L) AI/	ΜL
_	AE: Transactions on Machine Learning Research (TN	MLR) AI/	ΜL
_	Senior AE: ACL Rolling Review (ARR)	Λ	ILF
_	Ethics Co-Chair: Association for Computational Ling	uistics (ACL)	ILF
_	Empirical Methods in Natural Language Proc (EMN	LP) ^	ILF
2022	International Conference on Learning Representation	s (ICLR) AI/	ΜL
_	Senior MR: Association for the Advancement of Arti	ficial Intelligence (AAAI) AI/	ΜL
-	Senior AC: Empirical Methods in Natural Language	Proc (EMNLP)	ILF
-	AE: Transactions on Machine Learning Research (TI	MLR) AI/	ΜL
_	Senior AE: ACL Rolling Review (ARR)	٨	ILF
-	Neural Information Processing Systems (NeurIPS)	AI/	ΜL
2021	International Conference on Learning Representation	s (ICLR) AI/	ΜL

AI/ML

_	Associati	ion for Computational Linguistics (ACL)	NLP
_	Empirica	l Methods in Natural Language Proc (EMNLP)	NLP
_	Neural Information Processing Systems (NeurIPS)		
_	ACL Roll	ling Review (ARR)	NLP
2020	Association for Computational Linguistics (ACL)		
_	Neural Information Processing Systems (NeurIPS)		
_	Asia-Pac	ific chapter of the Association for Computational Linguistics (AACL)	NLP
2019	Associati	ion for Computational Linguistics (ACL)	NLP
2018	Internation	onal Conference on Computational Linguistics	NLP
2016	Conferen	ce on Lexical and Computational Semantics (*SEM)	NLP
	Review	rer	
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 201	9 – 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	IEEE/RSJ International Conference on Intelligent Robots and Systems	2019,2023
	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
	_		
	Organi	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 Conference on Computer Vision	

Workshop *Workshop on Dataset Curation and Security* NeurlPS

- 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 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

- 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