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

MCDS	Embodied Navigation and	Interaction					2022
	Adhokshaja Madhwaraj	he/him	_	a Mahajan	he	e/him	
	Sai Vishwas Padigi	he/him	Vineeth	,	he	e/him	
	Malaika Vijay	she/her	Zheng (J	lessica) Zhong	sh	ne/her	
MCDS	Embodied Dialogue and To		NULL II C				2022
	Xinyue Chen	she/her	Nikhil G			e/him	
	Benny Jiang	he/him	Shubhan	n Phai	he	e/him	
MCDS	Prasoon Varshney Novel Concept Learning	he/him					2022
MCD3	Bharani Ujjaini Kempaiah	she/her	Linyi Li		ah	ne/her	2022
MCAII	***	sile/ilei	Lillyi Li		SII	e/ ner	2022
MSAII	Visual Patent Search Suchong Dong	she/her	Zhiyuan	Guo	hε	e/him	2022
	Mansi Goyal	she/her		lendez Simon		ne/her	
	Sreenidhi Sundaram	she/her		n Den Berghe		e/him	
MLT	Yingshan Chang she/her	Multimodal Reaso		· ·	LTI	2020 -	- 2022
MLT	Josh Zhanson he/him	Embodied Visual	Reps		LTI	2020 -	- 2022
MS	Xiaoyu (Erin) Zhang she/her		•	(co-O Kroemer)	5th	2021 -	- 2022
Ugrad	Feiyu (Gavin) Zhu	Video Summariza		(co-C Paxton)		-	2021
Intern	Melanie Sclar	Symmetric Theory		,			2021
		•	y-01-IVIIIIu	(co-d Neubig)			
Intern	Blessing Bassey	<i>TextVQA</i>					2021
	Journal Publications						
1.	Training Vision-Language 1	Transformers from	Cantions	:			2023
1.	Liangke Gui, Qiuyuan Huang, A Transactions on Machine Learni	lex Hauptmann, <u>Yon</u>					2020
2.	The Return of Lexical Depo	endencies: Neura	l Lexicaliz	ed PCFGs			2020
	Hao Zhu, <u>Yonatan Bisk,</u> Grahan						
	Transactions of the Association	for Computational L	inguistics				
3.	An HDP Model for Inducing Combinatory Categorial Grammars					2013	
	Yonatan Bisk, Julia Hockenmaie						
	Transactions of the Association	tor Computational L	inguistics				
	6 (DIII: ::						
	Conference Publication	ons					
4.	HomeRobot Open Vocab N	Mobile Manipulati	on Challe	nge			2023
	Sriram Yenamandra, Arun Ramachandran, Mukul Khanna, Karmesh Yadav, Devendra Singh						
	Chaplot, Gunjan Chhablani, Alex						
	Ramrakhya, Andrew Szot, Tsung				ah, Zsol	t	
	Kira, Dhruv Batra, Roozbeh Mo Thirty-seventh Conference on N				Track		
_	•			•	ITACK		2022
5.	EXCALIBUR: Encouraging Hao Zhu, Raghav Kapoor, So Yo				am Neul	nig	2023
	Yonatan Bisk, Aniruddha Kembl		iii, Siatai Li	, realweir delig, draile	IIII IVCUI	716,	
	Conference on Computer Vision		ition				
6.	Computational Language A	_		Mind			2023
0.	Andy Liu, Hao Zhu, Emmy Liu,			··········			2020
	The Eleventh International Conf			tions			
7.	Self-Supervised Object Goa						2023
	So Yeon Min, Yao-Hung Hubert	Tsai, Wei Ding, Ali	Farhadi, Rı	uslan Salakhutdinov,			
	Yonatan Bisk, Jian Zhang	=		_			
	IEEE/RSJ International Confere	_		-			_
8.	Don't Copy the Teacher: D			in Embodied Dial	ogue		2022
	So Yeon Min, Hao Zhu, Ruslan Conference on Empirical Method			ina			
0	•	=	-	=			2022
9.	EvEntS ReaLM: Event Rea Evangelia Spiliopoulou, Artidoro				•		2022
	Conference on Empirical Method			=			
	,	S	-	-			

10.	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
11.	Transformers are Adaptable Task Planners Vidhi Jain, Yixin Lin, Eric Undersander, <u>Yonatan Bisk</u> , Akshara Rai Conference on Robot Learning	2022
12.	Symmetric Machine Theory of Mind Melanie Sclar, Graham Neubig, Yonatan Bisk 39th International Conference on Machine Learning	2022
13.	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
14.	Simulated Language Learning from Communicative Goals and Linguistic Input Hao Zhu, Yonatan Bisk, Graham Neubig Annual Meeting of the Cognitive Science Society (Oral)	2022
15.	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
16.	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
17.	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
18.	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
19.	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
20.	Language Grounding with 3D Objects Jesse Thomason, Mohit Shridhar, Yonatan Bisk, Chris Paxton, Luke Zettlemoyer Conference on Robot Learning	2021
21.	TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment Jianwei Yang, Yonatan Bisk, Jianfeng Gao International Conference on Computer Vision	2021
22.	Few-shot Language Coordination by Modeling Theory of Mind Hao Zhu, Graham Neubig, Yonatan Bisk The Thirty-eighth International Conference on Machine Learning	2021
23.	Grounding 'Grounding' in NLP Khyathi Raghavi Chandu, Yonatan Bisk, Alan W Black Findings of The 2021 Conference of the Association for Computational Linguistics	2021
24.	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
25.	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

26.	ALFWorld: Aligning Text and Embodied Environments for Interactive Learning Mohit Shridhar, Xingdi Yuan, Marc-Alexandre Côté, <u>Yonatan Bisk</u> , Adam Trischler, Matthew Hausknecht	2021
	International Conference on Learning Representations	
27.	Imagining Grounded Conceptual Representations from Perceptual Information in Situated Guessing Games Alessandro Suglia, Antonio Vergari, Ioannis Konstas, <u>Yonatan Bisk</u> , Emanuele Bastianelli, Andrea Vanzo, Oliver Lemon The 28th International Conference on Computational Linguistics (Oral)	2020
28.	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
29.	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
30.	ALFRED: A Benchmark for Interpreting Grounded Instructions for Everyday	2020
	Tasks 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)	
31.	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
32.	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	2019
33.	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 Thirty-third Conference on Neural Information Processing Systems	2019
34.	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
35.	Early Fusion for Goal Directed Robotic Vision Aaron Walsman, Yonatan Bisk, Saadia Gabriel, Dipendra Misra, Yoav Artzi, Yejin Choi, Dieter Fox	2019
	2019 IEEE/RSJ International Conference on Intelligent Robots and Systems - RoboCup Best Paper Award finalist	2010
36.	HellaSwag: Can a Machine Really Finish Your Sentence? Rowan Zellers, Ari Holtzman, Yonatan Bisk, Ali Farhadi, Yejin Choi Association for Computational Linguistics	2019
37.	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
38.	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
39.	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

40.	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	
41.	Linguistics Benchmarking Hierarchical Script Knowledge	2019
71.	Yonatan Bisk, Jan Buys, Karl Pichotta, Yejin Choi	2013
	Annual Conference of the North American Chapter of the Association for Computational	
	Linguistics (Oral)	
42.	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)	
42		2010
43.	SWAG: A Large-Scale Adversarial Dataset for Grounded Commonsense Inference Rowan Zellers, <u>Yonatan Bisk</u> , Roy Schwartz, Yejin Choi	2018
	Conference on Empirical Methods in Natural Language Processing (EMNLP) (Oral)	
44.	Synthetic and Natural Noise Both Break Neural Machine Translation	2018
	Yonatan Belinkov, Yonatan Bisk	2010
	6th International Conference on Learning Representations (Oral)	
45.	Learning Interpretable Spatial Operations in a Rich 3D Blocks World	2018
	Yonatan Bisk, Kevin Shih, Yejin Choi, Daniel Marcu	
	Thirty-Second Conference on Artificial Intelligence (AAAI-18)	
46.	Natural Language Inference from Multiple Premises	2017
	Alice Lai, <u>Yonatan Bisk</u> , Julia Hockenmaier	
	Eighth International Joint Conference on Natural Language Processing (Oral)	
47.	Natural Language Communication with Robots	2016
	Yonatan Bisk, Deniz Yuret, Daniel Marcu 15th Annual Conference of the North American Chapter of the Association for	
	Computational Linguistics (Oral)	
48.	Supertagging with LSTMs	2016
	Ashish Vaswani, <u>Yonatan Bisk, Kenji Sagae, Ryan Musa</u>	
	15th Annual Conference of the North American Chapter of the Association for	
	Computational Linguistics (Short Papers) (Oral)	
49.	Evaluating Induced CCG Parsers on Grounded Semantic Parsing	2016
	Yonatan Bisk, Siva Reddy, John Blitzer, Julia Hockenmaier, Mark Steedman 2016 Conference on Empirical Methods in Natural Language Processing	
Ε0	,	2015
50.	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)	2015
51.	Labeled Grammar Induction with Minimal Supervision	2015
	Yonatan Bisk, Christos Christodoulopoulos, Julia Hockenmaier 53rd Annual Meeting of the Association for Computational Linguistics and the 7th	
	International Joint Conference on Natural Language Processing (Volume 2: Short Papers)	
52.	Simple Robust Grammar Induction with Combinatory Categorial Grammar	2012
	Yonatan Bisk, Julia Hockenmaier	
	Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)	
53.	Document-Topic Hierarchies from Document Graphs	2012
	Tim Weninger, <u>Yonatan Bisk</u> , Jiawei Han	
	21st ACM international conference on Information and knowledge management (CIKM	
54.	2012) Normal-form parsing for CCGs with generalized composition and type-raising	2010
J4.	Julia Hockenmaier, Yonatan Bisk	2010
	23rd International Conference on Computational Linguistics (Coling 2010)	

55.	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
56.	Tackling AlfWorld with Action Attention and Common Sense from Language Models Yue Wu, So Yeon Min, Yonatan Bisk, Ruslan Salakhutdinov, Shrimai Prabhumoye	2022
	Language and Reinforcement Learning Workshop at NeurIPS 2022	
57.	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
58.	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
59.	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
60.	Inducing Grammars with and for Neural Machine Translation Ke Tran, Yonatan Bisk 2nd Workshop on Neural Machine Translation	2018
61.	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
62.	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
63.	Unsupervised Neural Hidden Markov Models Ke Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu, Kevin Knight Workshop on Structured Prediction for NLP (Oral)	2016
64.	Induction of Linguistic Structure with Combinatory Categorial Grammars Yonatan Bisk, Julia Hockenmaier NAACL HLT Workshop on Induction of Linguistic Structure	2012
	Tech Reports	
65.	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
66.	Spatial-Language Attention Policies for Efficient Robot Learning Priyam Parashar, Vidhi Jain, Xiaohan Zhang, Jay Vakil, Sam Powers, Yonatan Bisk, Chris Paxton ArXiv	2023
67.	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 ArXiv	2023
68.	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 ArXiv	2023

69.	•	Algorithms by Studying Papers and Reasoning Iin, Yonatan Bisk, Ruslan Salakhutdinov, Amos Azaria,	2023
70.	Agents	lage Models are Good Teachers for Embodied	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 Rolling Review (ARR)		
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