## Yonatan Bisk

Assistant Professor of Computer Science

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

	Positions							
2020 –	Assistant Professor Language Technologies Robotics Institute (cou	Institute	Mellon Universit	ty				
2022 –	Visiting Professor A	- /	damental AI Rese	earch (FAIR	)	W <sub>/</sub>	w/ Dhruv Batra	
2021 -	Consulting Professo	r Micros	oft Research					
2019 –	Visiting Researcher	Microson	ft Research			w/	w/ Jianfeng Gao	
2017 –	Postdoctoral Schola University of Washington		n Institute for Arti	ficial Intellig	ence		w/ Yejin Choi	
2015 –	Postdoctoral Schola Information Sciences In		niversity of Southe	ern California	a	w,	/ Dani	el Marcu
	Education							
2015	PhD in Computer Science The University of Illinois at Urbana-Champaign, Thesis: Unsupervised Grammar Induction with Combinatory Categorial Grammars Advisor: Julia Hockenmaier Committee: Jason Eisner, Dan Roth, ChengXiang Zhai							
2009	BS in Computer Science The University of Texas at Austin Turing Scholar, Thesis: The Necessity of Separating Control and Logic When Grounding Language using Neuroevolution Advisor: Risto Miikkulainen Second Reader: Raymond Mooney							
	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 Co.	ntrol	( )		RI	2021 -
PhD	Tiffany Min		Embodiment		(co-R Salakhutdir	10V)	MLD	2021 –
PhD	Yingshan Chang	she/her	Multimodal Rea	soning	•	,	LTI	2022 –
	Professional Ma	actors	Studonts					
11000								
MRSD	Assistive Robotics f Abhinav Gupta Praveen Venkatesh Shivam Tripathy	or Elder	he/him he/him he/him	•	Pusalkar Kataria		e/him e/him	2023
	Alumni, Interns	and	Undergradua	ates				
MLT	Jimin Sun		Embodied Dialo			LTI	2022	- 2023
Ugrad	Xiang Fan	sile/ lief	Transformer Effi	_	(co-E Strubell)		2022	2022
Intern	Andy Liu		Theory-of-Mind	cicitey	(co-G Neubig)			2022
Intern	Deogratias Amani	he/him	Grounding		(66 6 1164518)			2022
MRSD	Modular Teleop wit		_	ckson)				2022
	Jashkumar Diyora		he/him	•	angopadhyay	sh	ne/her	
	Jigar Patel Shivani Sivakumar		he/him she/her	Prakhar		he	e/him	

MCDS	Embodied Navigation and I	Interaction				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 (.	Jessica) Zhong	sh	ne/her
MCDS	Embodied Dialogue and To					2022
	Xinyue Chen	she/her	Nikhil G			e/him
	Benny Jiang	he/him	Shubhan	n Phal	he	e/him
MCDC	Prasoon Varshney	he/him				2022
MCDS	Novel Concept Learning		Limit Li			2022
	Bharani Ujjaini Kempaiah	she/her	Linyi Li		sh	ne/her
MSAII	Visual Patent Search Suchong Dong	ala a /la au	Zhiyuan	Guo	l	2022 e/him
	Mansi Goyal	she/her she/her	-	Tendez Simon		e/mm ne/her
	Sreenidhi Sundaram	she/her		n Den Berghe		e/him
MLT		Multimodal Re		II Dell Delglie	LTI	2020 – 2022
MLT		Embodied Visi	· ·		LTI	2020 - 2022
	,		•	( O K)		
MS	Xiaoyu (Erin) Zhang she/her			(co-O Kroemer)	5th	2021 – 2022
Ugrad	Feiyu (Gavin) Zhu	Video Summar		(co-C Paxton)		2021
Intern	Melanie Sclar	Symmetric The	eory-of-Mind	(co-G Neubig)		2021
Intern	Blessing Bassey	TextVQA				2021
	Journal Publications					
1.	Training Vision-Language 7					2023
	Liangke Gui, Qiuyuan Huang, A Transactions on Machine Learni		Yonatan Bisk,	Jianteng Gao		
•				LDCEC		2020
2.	The Return of Lexical Depo		ural Lexicaliz	zed PCFGs		2020
	Hao Zhu, <u>Yonatan Bisk</u> , Grahan Transactions of the Association		al Linguistics			
3.		•	_	Grammars		2013
3.	3. An HDP Model for Inducing Combinatory Categorial Grammars Yonatan Bisk, Julia Hockenmaier				2013	
	Transactions of the Association		al Linguistics			
		,	J			
	Conference Publication	one				
4.	HomeRobot Open Vocab N				C: 1	2023
	Sriram Yenamandra, Arun Rama Chaplot, Gunjan Chhablani, Alex					Dam
	Ramrakhya, Andrew Szot, Tsung		•			
	Kira, Dhruv Batra, Roozbeh Mo				an, 2501	
	Thirty-seventh Conference on N	_			Track	
5.	<b>EXCALIBUR:</b> Encouraging	and Evaluating	z Embodied	Exploration		2023
	Hao Zhu, Raghav Kapoor, So Y				am Neul	
	Yonatan Bisk, Aniruddha Kembl	havi, Luca Weihs				
	Conference on Computer Vision	and Pattern Rec	ognition			
6.	Computational Language A	cquisition with	Theory of	Mind		2023
	Andy Liu, Hao Zhu, Emmy Liu,		_			
	The Eleventh International Conf	ference on Learnii	ng Representa	tions		
7.	Self-Supervised Object Goa					2023
	So Yeon Min, Yao-Hung Hubert	Tsai, Wei Ding,	Ali Farhadi, R	uslan Salakhutdinov,		
	Yonatan Bisk, Jian Zhang	1 . 111	. 5	<b>-</b> .		
	IEEE/RSJ International Confere	_		-		20
8.	Don't Copy the Teacher: D			s in Embodied Dia	logue	2022
	So Yeon Min, Hao Zhu, Ruslan Conference on Empirical Method			cin a		
^					_	0000
9.	<b>EvEntS ReaLM: Event Rea</b> Evangelia Spiliopoulou, Artidoro				š	2022
	Conference on Empirical Method			=		
	,			_		

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, Yonatan Bisk, 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 Linguistics (Oral)	2021
25.	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.	Mohit Shridhar, Xingdi Yuan, Marc-Alexandre Côté, Yonatan Bisk, Adam Trischler, Matthew Hausknecht International Conference on Learning Representations	2021
27.	Imagining Grounded Conceptual Representations from Perceptual Information in	2020
	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)	
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	2020
	Conference on Empirical Methods in Natural Language Processing (EMNLP) (Oral)	
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 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)	
31.	PIQA: Reasoning about Physical Commonsense in Natural Language	2020
<b>J1</b> .	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, <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	
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	2019
	Thirty-third Conference on Neural Information Processing Systems	
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.	<b>Early Fusion for Goal Directed Robotic Vision</b> 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	
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	2019
	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)	
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 Linguistics	

41.	Benchmarking Hierarchical Script Knowledge  Yonatan Bisk, Jan Buys, Karl Pichotta, Yejin Choi	2019
	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, Yonatan Bisk, Yonatan Belinkov The 41st Annual Meeting of the Cognitive Science Society (Oral)	
43.	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
44.	Synthetic and Natural Noise Both Break Neural Machine Translation Yonatan Belinkov, Yonatan Bisk 6th International Conference on Learning Representations (Oral)	2018
45.	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
46.	Natural Language Inference from Multiple Premises  Alice Lai, Yonatan Bisk, Julia Hockenmaier  Eighth International Joint Conference on Natural Language Processing (Oral)	2017
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)	2010
48.	Supertagging with LSTMs	2016
	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)	
49.	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
50.	Probing the Linguistic Strengths and Limitations of Unsupervised Grammar	2015
	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)	
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, Yonatan Bisk, Jiawei Han 21st ACM international conference on Information and knowledge management (CIKM 2012)	
54.	Normal-form parsing for CCGs with generalized composition and type-raising Julia Hockenmaier, Yonatan Bisk	2010
	23rd International Conference on Computational Linguistics (Coling 2010)	
_	Workshop Publications	
55.	MAEA: Multimodal Attribution for Embodied Al	2022
	Vidhi Jain, Jayant Sravan Tamarapalli, Sahiti Yerramilli, <u>Yonatan Bisk</u> Progress and Challenges in Building Trustworthy Embodied AL at NeurIPS 2022	

56.	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
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, Yonatan Bisk, 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, <u>Yonatan Bisk</u> , 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.	<b>SPRING: GPT-4 Out-performs RL Algorithms by Studying Papers and Reasoning</b> Yue Wu, Shrimai Prabhumoye, So Yeon Min, <u>Yonatan Bisk</u> , Ruslan Salakhutdinov, Amos Azaria, Tom Mitchell, Yuanzhi Li  ArXiv	2023

70.	Agents	lage Models are Good Teachers for Embodied	2023
	Mitchell, Shrimai Prabhumoye  ArXiv	Salakhutumov, Amos Azana, Tuanzin El, Tom	
71.		etween Inference Efficiency in Research and	2023
	<b>Deployment</b> Jared Fernandez, Jacob Kahn, Clara Na, YarXiv	<u>Yonatan Bisk,</u> Emma Strubell	
72.	Singh Chaplot, Changan Chen, Claudia Pe Anthony Francis, Chuang Gan, Kristen Gr Aniruddha Kembhavi, Jacob Krantz, Stefa Maksymets, Roberto Martín-Martín, Rooz Silvio Savarese, Manolis Savva, Mohit Shr	Workshop Tommaso Campari, Angel X. Chang, Devendra Ferez D'Arpino, Kiana Ehsani, Ali Farhadi, Li Fei-Fei, auman, David Hall, Winson Han, Unnat Jain, an Lee, Chengshu Li, Sagnik Majumder, Oleksandr beh Mottaghi, Sonia Raychaudhuri, Mike Roberts, ridhar, Niko Sünderhauf, Andrew Szot, Ben Talbot, Alexander Toshev, Joanne Truong, Luca Weihs, Jiajun	2022
73.	Multi-View Learning for Vision-and	- <b>Language Navigation</b> atan Bisk, Zhifang Sui, Jianfeng Gao, Yejin Choi, Noah	2020
74.	FIND: Identifying Functionally and Sequences with Deep Neural Network Ranjani Murali, James Hemp, Victoria Or bioRxiv		2019
75.	CHALET: Cornell House Agent Lea Claudia Yan, Dipendra Misra, Andrew Ber ArXiv Preprint 1801.07357	<mark>nrning Environment</mark> nnett, Aaron Walsman, <u>Yonatan Bisk,</u> Yoav Artzi	2018
76.	Unsupervised Grammar Induction was Yonatan Bisk University of Illinois at Urbana-Champaign	rith 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	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	
2022	MLT Aishwarya Jadhav	Katia Sycara	
2021	PhD Pengcheng Yin	Graham Neubig	
2020	PhD Zihang Dai	Yiming Yang	
2021	MLT Jing Wen	Katerina Fragkiadaki	i, CMU

2021 Qual Mohit Sharma

Oliver Kroemer, CMU

	Teaching		
2023	11-851 Talking to Robots	# Stu	dents: , FA
_0_0	11-767 On-Device Machine Learning	Co-Emma Strubell # Stu	
	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	
2021	11-777 MultiModal Machine Learning		nts: 42, SP
	11 111 Maleimodal Maeimie 2eaming	// Stade	11.65. 12, 51
	Diversity and Inclusion		
2022	NAACL 2022 DEI Co-Chair		
2021	Restructuring of LTI PhD Admissions,		2yr
2020	LTI DEI Committee,		2yrs
2019	<b>CrashCourse AI</b> Educational YouTube series targeted at h Ashe. Co-Written with Lana Yarosh and Tim Weninger,	igh-school age viewers. Hosto	ed by Jabril <i>1yr</i>
2018	<b>ACM Council on Diversity &amp; Inclusion</b> Investigating and ACM on behalf of underrepresented groups.,	l initiating institutional chang	ge within <i>1yr</i>
_	Grace Hopper PC member Review submissions to Al Tec	chnical Track,	1yr
2016	NCWIT Collegiate Award Review applications for the Na Technology's Collegiate Award honoring college women, ISI	tional Center for Women & I	nformation 3yrs
2009	NCWIT Aspirations in Computing Review applications for Information Technology's Award for Aspirations in Computiniterested in CS, UIUC, ISI	or the National Center for W	
-	<b>Tech Junket/Women in CS</b> Outreach for local Urbana-C <i>2yrs</i>	hampaign pre-college student	-
2008	Freshman Research Mentor Mentored students to perform	m research, UTexas	1yr
_	First Bytes Helped organize a summer camp for girls interest		-
_	Co-Founded Breakfast Bytes Professor talks for pre-colle		1yr
_	CS Roadshow CS presentations at Austin middle and high	-	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
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	` '	NLP
-	Empirical Methods in Natural Language Proc (EMNLI	•	NLP
2022	International Conference on Learning Representations	` '	AI/ML
-	Senior MR: Association for the Advancement of Artific	- '	AI/ML
_	Senior AC: Empirical Methods in Natural Language Po	, ,	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	International Conference on Learning Representations	(ICLR)	AI/ML
_	Association for Computational Linguistics (ACL)		NLP
_	<b>Empirical Methods in Natural Language Proc (EMNLI</b>	P)	NLP

_	Neural Ir	nformation Processing Systems (NeurIPS)	AI/ML
-	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	on for Computational Linguistics (ACL)	NLP
2018	Internation	onal Conference on Computational Linguistics	NLP
2016	Conferen	ce on Lexical and Computational Semantics (*SEM)	NLP
	Review		
NII D			2021
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
	<b>EMNLP</b>	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 20	19 – 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 System	s <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
	Organi	zation (Workshops and Conference)	
2022	_	<b>p</b> Embodied AI Workshop – Challenge Organizer	
		Vision and Pattern Recognition	
2021		p Embodied AI Workshop – Challenge Organizer Vision and Pattern Recognition	
2020	Worksho	p Embodied Vision, Actions & Language Workshop	
	European	Conference on Computer Vision	
-	Worksho NeurIPS	<b>p</b> Workshop on Dataset Curation and Security	
2019		<b>p</b> Spatial Language Understanding and Grounded communication for Robonerican Chapter of the Association for Computational Linguistics	tics

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 Al

**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