## Yonatan Bisk

Assistant Professor of Computer Science

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

	Positions						
2020 –	Assistant Professor Carnegie Mellon University Language Technologies Institute Robotics Institute (courtesy)						
2022 –	Visiting Professor M	eta Fund	damental Al Resea	rch (FAIR)	)	w/ Dhru	ıv Batra
2021 –	Consulting Professor	r Micros	oft Research				
2019 –	Visiting Researcher		ft Research			w/ Jianfeng Gao	
2017 –	Postdoctoral Scholar University of Washingto	n & Allei	n Institute for Artific	cial Intellige	ence	w/ Yejin Choi	
2015 –	Postdoctoral Schola Information Sciences Ins		niversity of Souther	n California		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						
2009	Committee: Jason Eisner, Dan Roth, ChengXiang Zhai <b>BS in Computer Science</b> The University of Texas at Austin Turing Scholar,  Thesis: The Necessity of Separating Control and Logic When Grounding Language using Neuroevolution						
	Advisor: Risto Miikkulai	inen	Second Reader: Ra	ymond Mo	oney		
	PhD Students						
PhD	Hao Zhu	he/him	Theory of Mind		(co-G Neubig)	LTI	2019 –
PhD	Jared Fernandez	he/him	Efficiency		(co-E Strubell)	LTI	2020 –
PhD	Vidhi Jain		Language to Cont	rol	(	RI	2021 –
PhD	Tiffany Min	,	Embodiment		(co-R Salakhutdinov)		2021 –
PhD	Yingshan Chang	she/her	Multimodal Reaso	oning		LTI	2022 –
	Research MS St	udent	:S				
MLT	Jimin Sun	she/her	Embodied Dialogu	ıe		LTI	2022 –
_	Professional Ma	sters	Students				
MRSD	Assistive Robotics for	or Elder	care (*co-Z Erick	son)			2023
	Abhinav Gupta		he/him	Atharva I		he/him	
	Praveen Venkatesh Shivam Tripathy		he/him he/him	Shaolin k	(ataria	he/him	
	Alumni, Interns,	and	Undergraduat	es			
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	nomy (*co- <b>Z</b> E					2022
	Jashkumar Diyora	he/him	Shruti G	angopadhyay	sh	ne/her	
	Jigar Patel	he/him	Prakhar	Pradeep	he	e/him	
	Shivani Sivakumar	she/her					
MCDS	Embodied Navigation and I	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	Jessica) Zhong	sh	ie/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	
	Prasoon Varshney	he/him					
MCDS	Novel Concept Learning		12. 212				2022
	Bharani Ujjaini Kempaiah	she/her	Linyi Li		sh	ie/her	
MSAII	Visual Patent Search		71.	<b>C</b>			2022
	Suchong Dong	she/her	Zhiyuan			e/him	
	Mansi Goyal	she/her		lendez Simon		ie/her	
N 41 T	Sreenidhi Sundaram	she/her		n Den Berghe		e/him	2022
MLT		Multimodal R	· ·		LTI		- 2022
MLT	Josh Zhanson he/him	Embodied Vis	ual Reps		LTI	2020	- 2022
MS	Xiaoyu (Erin) Zhang she/her	Collaborative	Robots	(co-O Kroemer)	5th	2021	- 2022
Ugrad	Feiyu (Gavin) Zhu	Video Summa	rization	(co-C Paxton)			2021
Intern	Melanie Sclar	Symmetric Th	neory-of-Mind	(co-G Neubig)			2021
Intern	Blessing Bassey	TextVQA	,	(			2021
		75.07 47.					
	Journal Publications						
1.	The Return of Lexical Depo	endencies: Ne	ural Lexicaliz	zed PCFGs			2020
	Hao Zhu, <u>Yonatan Bisk,</u> Graham						
	Transactions of the Association	for Computation	al Linguistics				
2.	An HDP Model for Inducin	g Combinator	y Categorial	Grammars			2013
	Yonatan Bisk, Julia Hockenmaier						
	Transactions of the Association	for Computation	al Linguistics				
	Conference Publication	ons					
2			lation Challe				2022
3.	HomeRobot Open Vocab N				a Singh		2023
	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 Mo		_	-	,		
	Thirty-seventh Conference on N				Track		
4.	<b>EXCALIBUR:</b> Encouraging	and Evaluatin	g Embodied	Exploration			2023
	Hao Zhu, Raghav Kapoor, So Yo				am Neul	oig,	
	Yonatan Bisk, Aniruddha Kembl	navi, Luca Weihs	5				
	Conference on Computer Vision	and Pattern Red	cognition				
5.	Computational Language A	cquisition witl	h Theory of	Mind			2023
	Andy Liu, Hao Zhu, Emmy Liu,	•	-				
	The Eleventh International Conf	ference on Learni	ing Representat	tions			
6.	Self-Supervised Object Goa	l Navigation v	with In-Situ I	Finetuning			2023
	So Yeon Min, Yao-Hung Hubert						
	Yonatan Bisk, Jian Zhang						
	IEEE/RSJ International Confere	nce on Intelligen	t Robots and S	Systems			
7.	Don't Copy the Teacher: D	ata and Mod	el Challenges	in Embodied Dia	logue		2022
	So Yeon Min, Hao Zhu, Ruslan						
	Conference on Empirical Method	ds in Natural Lai	nguage Process	sing			

8.	<b>EvEntS ReaLM: Event Reasoning of Entity States via Language Models</b> Evangelia Spiliopoulou, Artidoro Pagnoni, <u>Yonatan Bisk</u> , Eduard Hovy Conference on Empirical Methods in Natural Language Processing	2022
9.	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
10.	Transformers are Adaptable Task Planners Vidhi Jain, Yixin Lin, Eric Undersander, Yonatan Bisk, Akshara Rai Conference on Robot Learning	2022
11.	Symmetric Machine Theory of Mind Melanie Sclar, Graham Neubig, Yonatan Bisk 39th International Conference on Machine Learning	2022
12.	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
13.	Simulated Language Learning from Communicative Goals and Linguistic Input Hao Zhu, Yonatan Bisk, Graham Neubig Annual Meeting of the Cognitive Science Society (Oral)	2022
14.	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
15.	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
16.	FILM: Following Instructions in Language with Modular Methods So Yeon Min, Devendra Singh Chaplot, Pradeep Ravikumar, <u>Yonatan Bisk</u> , Ruslan Salakhutdinov	2022
	The Tenth International Conference on Learning Representations	
17.	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
18.	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
19.	Language Grounding with 3D Objects  Jesse Thomason, Mohit Shridhar, Yonatan Bisk, Chris Paxton, Luke Zettlemoyer  Conference on Robot Learning	2021
20.	TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment Jianwei Yang, Yonatan Bisk, Jianfeng Gao International Conference on Computer Vision	2021
21.	Few-shot Language Coordination by Modeling Theory of Mind Hao Zhu, Graham Neubig, Yonatan Bisk The Thirty-eighth International Conference on Machine Learning	2021
22.	Grounding 'Grounding' in NLP Khyathi Raghavi Chandu, Yonatan Bisk, Alan W Black Findings of The 2021 Conference of the Association for Computational Linguistics	2021
23.	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

24.	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
25.	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
26.	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
27.	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
28.	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
29.	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
30.	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
31.	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 Conference on Empirical Methods in Natural Language Processing and 9th International	2019
32.	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
33.	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
34.	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	2019
35.	HellaSwag: Can a Machine Really Finish Your Sentence? Rowan Zellers, Ari Holtzman, Yonatan Bisk, Ali Farhadi, Yejin Choi Association for Computational Linguistics	2019
36.	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
37.	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
38.	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

39.	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	
40.	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)	
41.	Character-based Surprisal as a Model of Reading Difficulty in the Presence of Errors	2019
	Michael Hahn, Frank Keller, <u>Yonatan Bisk</u> , Yonatan Belinkov  The 41st Annual Meeting of the Cognitive Science Society (Oral)	
42.	SWAG: A Large-Scale Adversarial Dataset for Grounded Commonsense Inference Rowan Zellers, <u>Yonatan Bisk</u> , Roy Schwartz, Yejin Choi Conference on Empirical Methods in Natural Language Processing (EMNLP) (Oral)	2018
43.	Synthetic and Natural Noise Both Break Neural Machine Translation Yonatan Belinkov, Yonatan Bisk 6th International Conference on Learning Representations (Oral)	2018
44.	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
45.	Natural Language Inference from Multiple Premises	2017
	Alice Lai, Yonatan Bisk, Julia Hockenmaier  Eighth International Joint Conference on Natural Language Processing (Oral)	
46.	Natural Language Communication with Robots  Yonatan Bisk, Deniz Yuret, Daniel Marcu	2016
	15th Annual Conference of the North American Chapter of the Association for Computational Linguistics (Oral)	
47.	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)	
48.	<u>Yonatan Bisk</u> , Siva Reddy, John Blitzer, Julia Hockenmaier, Mark Steedman 2016 Conference on Empirical Methods in Natural Language Processing	2016
49.	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)	201
50.	Labeled Grammar Induction with Minimal Supervision  Yonatan Bisk, Christos Christodoulopoulos, Julia Hockenmaier	2015
	53rd Annual Meeting of the Association for Computational Linguistics and the 7th	
Г1	International Joint Conference on Natural Language Processing (Volume 2: Short Papers)	2012
51.	Simple Robust Grammar Induction with Combinatory Categorial Grammar Yonatan Bisk, Julia Hockenmaier	2012
	Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)	
52.	Document-Topic Hierarchies from Document Graphs Tim Weninger, Yonatan Bisk, Jiawei Han	2012
	21st ACM international conference on Information and knowledge management (CIKM 2012)	
53.	2012) Normal-form parsing for CCGs with generalized composition and type-raising	2010
	Julia Hockenmaier, <u>Yonatan Bisk</u>	
	23rd International Conference on Computational Linguistics (Coling 2010)	

54.	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
55.	Tackling AlfWorld with Action Attention and Common Sense from Language Models Yue Wu, So Yeon Min, Yonatan Bisk, Ruslan Salakhutdinov, Shrimai Prabhumoye	2022
56.	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	2022
57.	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
58.	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
59.	Inducing Grammars with and for Neural Machine Translation Ke Tran, Yonatan Bisk 2nd Workshop on Neural Machine Translation	2018
60.	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
61.	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
62.	Unsupervised Neural Hidden Markov Models Ke Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu, Kevin Knight Workshop on Structured Prediction for NLP (Oral)	2016
63.	Induction of Linguistic Structure with Combinatory Categorial Grammars  Yonatan Bisk, Julia Hockenmaier  NAACL HLT Workshop on Induction of Linguistic Structure	2012
	Tech Reports	
64.	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
65.	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 ArXiv	2023
66.	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
67.	The Framework Tax: Disparities Between Inference Efficiency in Research and Deployment  Jared Fernandez, Jacob Kahn, Clara Na, Yonatan Bisk, Emma Strubell  ArXiv	2023

68.	Singh Chaplot, Changan Chen, Claudia F Anthony Francis, Chuang Gan, Kristen G Aniruddha Kembhavi, Jacob Krantz, Ste Maksymets, Roberto Martín-Martín, Roc Silvio Savarese, Manolis Savva, Mohit St	Al Workshop  Tommaso Campari, Angel X. Chang, Devendra  Pérez D'Arpino, Kiana Ehsani, Ali Farhadi, Li Fei-Fei,  Firauman, David Hall, Winson Han, Unnat Jain,  Fan Lee, Chengshu Li, Sagnik Majumder, Oleksandr  Fizbeh Mottaghi, Sonia Raychaudhuri, Mike Roberts,  Firidhar, Niko Sünderhauf, Andrew Szot, Ben Talbot,  Alexander Toshev, Joanne Truong, Luca Weihs, Jiajun	2022
69.	Training Vision-Language Transfor Liangke Gui, Qiuyuan Huang, Alex Haup ArXiv		2022
70.	Multi-View Learning for Vision-and Qiaolin Xia, Xiujun Li, Chunyuan Li, Yor A. Smith <i>ArXiv</i>	d-Language Navigation natan Bisk, Zhifang Sui, Jianfeng Gao, Yejin Choi, Noah	2020
71.	FIND: Identifying Functionally and Sequences with Deep Neural Netw Ranjani Murali, James Hemp, Victoria ObioRxiv		2019
72.	CHALET: Cornell House Agent Le Claudia Yan, Dipendra Misra, Andrew Be ArXiv Preprint 1801.07357	a <mark>rning Environment</mark> ennett, Aaron Walsman, <u>Yonatan Bisk,</u> Yoav Artzi	2018
73.	Unsupervised Grammar Induction  Yonatan Bisk University of Illinois at Urbana-Champaig	with Combinatory Categorial Grammars	2015
	Thesis Committees		
_	PhD Kaixin Ma	Eric Nyber	g, CMU
2023	PhD Nicholas Botzer	Tim Weninger, Notr	e Dame
2023	PhD Naoki Otani	Ed Hov	y, CMU
2023	PhD Dylan Ebert	Ellie Pavlick	, Brown
2022	PhD Shikib Mehri	Maxine Eskenazi	i , CMU
2022	PhD Shruti Palaskar	Alan Black and Florian Metz	e, CMU
2022	PhD Evangelia Spiliopoulou	Ed Hov	y, CMU
2022	PhD Dheeraj Rajagopal	Ed Hov	y, CMU
2022	PhD Volkan Cirik	Louis-Philippe Morency and Taylor Berg-Kirkpatric	k, CMU
2022	MLT Aishwarya Jadhav	Katia Sycar	a, CMU
2021	PhD Pengcheng Yin	Graham Neubi	g, CMU
2020	PhD Zihang Dai	Yiming Yan	g, CMU
2021	MLT Jing Wen	Katerina Fragkiadak	
2021	Qual Mohit Sharma	Oliver Kroeme	r, CMU
	Teaching		
2023	11-777 MultiModal Machine Learn	Co-Daniel Fried # Students:	107, SP
2022	11-767 On-Device Machine Learni	<del>-</del>	
2022	11-777 MultiModal Machine Learn	ning # Students:	94, SP
2021	11-767 On-Device Machine Learni	ng Co-Emma Strubell # Students:	31, FA
2021	11-777 MultiModal Machine Learn	ning # Students:	42 SP

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 high-school age viewers. Hoste Ashe. Co-Written with Lana Yarosh and Tim Weninger,	ed by Jabril 1yr
2018	<b>ACM Council on Diversity &amp; Inclusion</b> Investigating and initiating institutional chang ACM on behalf of underrepresented groups.,	ge within <i>1yr</i>
_	Grace Hopper PC member Review submissions to Al Technical Track,	1yr
2016	NCWIT Collegiate Award Review applications for the National Center for Women & I Technology's Collegiate Award honoring college women, ISI	nformation <i>3yrs</i>
2009	<b>NCWIT Aspirations in Computing</b> Review applications for the National Center for Wolfermation Technology's Award for Aspirations in Computing which supports high-school interested in CS, UIUC, ISI	
-	<b>Tech Junket/Women in CS</b> Outreach for local Urbana-Champaign pre-college student 2yrs	s, UIUC
2008	Freshman Research Mentor Mentored students to perform research, UTexas	1yr
_	First Bytes Helped organize a summer camp for girls interested in CS, UTexas	-
_	Co-Founded Breakfast Bytes Professor talks for pre-college students, UTexas	1yr
-	CS Roadshow CS presentations at Austin middle and high schools, UTexas	1yr
	Organization (Workshops and Conference)	
2022	<b>Workshop</b> Embodied AI Workshop – Challenge Organizer Computer Vision and Pattern Recognition	
2021	<b>Workshop</b> Embodied AI Workshop – Challenge Organizer Computer Vision and Pattern Recognition	
2020	<b>Workshop</b> <i>Embodied Vision, Actions &amp; Language Workshop</i> European Conference on Computer Vision	
-	<b>Workshop</b> 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	

- 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

## Area Chair / Action Editor

- 2024 Conference on Computer Vision and Pattern Recognition (CVPR)
- 2023 **Neural Information Processing Systems (NeurIPS)** 
  - International Conference on Machine Learning (ICML)
  - Transactions on Machine Learning Research Action Editor
  - Senior AE: ACL Rolling Review
  - Ethics Co-Chair: Association for Computational Linguistics
  - Empirical Methods in Natural Language Proc Senior AC: Language Grounding to Vision, Robotics and Beyond track

- 2022 International Conference on Learning Representations
  - Association for the Advancement of Artificial Intelligence Senior Meta-Reviewer
  - Empirical Methods in Natural Language Proc Senior AC: Speech, Vision, Robotics, Multimodal Grounding
  - Transactions on Machine Learning Research Action Editor
  - Senior AE: ACL Rolling Review
  - Neural Information Processing Systems (NeurIPS)
- 2021 International Conference on Learning Representations
  - Association for Computational Linguistics Machine Learning
  - Empirical Methods in Natural Language Proc Speech, Vision, Robotics, Multimodal Grounding
  - Neural Information Processing Systems (NeurIPS)
  - ACL Rolling Review
- 2020 Association for Computational Linguistics Language Grounding to Vision, Robotics and Beyond
  - Neural Information Processing Systems (NeurIPS)
  - Asia-Pacific chapter of the Association for Computational Linguistics
- 2019 Association for Computational Linguistics Vision, Robotics, Multimodal Grounding, and Speech
- 2018 International Conference on Computational Linguistics
- 2016 Conference on Lexical and Computational Semantics (\*SEM) Sem. Parsing and Role Labeling

## Reviewer

NLP	ARR	Association for Computational Linguistics Rolling Review	2021	
	ACL	Association for Computational Linguistics		
	CL	Computational Linguistics Journal		
	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>	P Empirical Methods in Natural Language Processing		
	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	2019 – 2021,2023	
	AURO	Autonomous Robots	2022	
	RSS Robotics: Science and Systems			
	HRI	Human Robot Interaction	2020 - 2023	
	ICRA	International Conference on Robotics and Automation	2019,2023	
	IJRR	International Journal of Robotics Research	2017	
	IROS	$\ensuremath{\mathrm{IEEE}/\mathrm{RSJ}}$ International Conference on Intelligent Robots and System	ems <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			
	IJCAI International Joint Conference on Artificial Intelligence			
	NeurlPS Neural Information Processing Systems			
CV	CVPR	Computer Vision and Pattern Recognition	2020, 2023	

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	Invitat	IODC	าทป	Talks
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2023 Are We Really Talking to Robots? "Dialogue with Robots" workshop, UPitt NSF Workshop

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