## 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,	/ Dhru	ıv 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 I	nteraction					2022
	Adhokshaja Madhwaraj	he/him	_	a Mahajan	he	/him	
	Sai Vishwas Padigi	he/him	Vineeth	,	he	/him	
MCDC	Malaika Vijay	she/her	Zheng (Jessica) Zhong		sh	e/her	2022
MCDS	Embodied Dialogue and To		Nikhil C	unto	1	/1 •	2022
	Xinyue Chen Benny Jiang	she/her he/him	Nikhil Gu Shubham	•		/him /him	
	Prasoon Varshney	he/him	Silubilali	I FIIdi	ne	/ nim	
MCDS	Novel Concept Learning	ne/mm					2022
	Bharani Ujjaini Kempaiah	she/her	Linyi Li		sh	e/her	
MSAII	Visual Patent Search						2022
	Suchong Dong	she/her	Zhiyuan			/him	
	Mansi Goyal	she/her		lendez Simon		e/her	
NALT	Sreenidhi Sundaram	she/her		n Den Berghe	he/him LTI 2020 – 202		2022
MLT	,	Multimodal Reas	Ū		LTI LTI		
MLT MS	Xiaoyu (Erin) Zhang she/her	Embodied Visual	•	(co-O Kroemer)	5th	2020 - 2021 -	
_	Feiyu (Gavin) Zhu	Video Summariza		(co-C Paxton)	Stil	2021 -	2022
Ugrad	- '			` ,			
Intern	Melanie Sclar	Symmetric Theor	y-ot-iviina	(co-G Neubig)			2021
Intern	Blessing Bassey	<i>TextVQA</i>					2021
	lournal Dublications						
	Journal Publications						
1.	Training Vision-Language T Liangke Gui, Qiuyuan Huang, Al Transactions on Machine Learnin	ex Hauptmann, <u>Yor</u>					2023
2.	The Return of Lexical Depe	_	ıl Lexicaliz	red PCFGs			2020
	Hao Zhu, <u>Yonatan Bisk</u> , Graham Transactions of the Association	Neubig					2020
3.	An HDP Model for Inducing Combinatory Categorial Grammars						2013
	Yonatan Bisk, Julia Hockenmaier Transactions of the Association for Computational Linguistics						
	Transactions of the Association i	for Computational I	inguistics				
	Conference Publication	ons					
4.	<b>Spatial-Language Attention</b> Priyam Parashar, Vidhi Jain, Xia				Chris		2023
	Paxton Conference on Pohot Learning						
5.	Conference on Robot Learning	law. Mahila Man	inulation				2023
5.	HomeRobot: Open-Vocabulary Mobile Manipulation  Sriram Yenamandra, Arun Ramachandran, Karmesh Yadav, Austin Wang, Mukul Khanna, Theophile Gervet, Tsung-Yen Yang, Vidhi Jain, Alexander William Clegg, John Turner, Zsolt Kira, Manolis Savva, Angel Chang, Devendra Singh Chaplot, Dhruv Batra, Roozbeh Mottaghi, Yonatan Bisk, Chris Paxton			2023			
	Conference on Robot Learning						
6.	HomeRobot Open Vocab M						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 Mottaghi, Yonatan Bisk, Chris Paxton Thirty-seventh Conference on Neural Information Processing Systems: Competition Track						
7.	EXCALIBUR: Encouraging			· · · · · · · · · · · · · · · · · · ·	IIACK		2023
1.	Hao Zhu, Raghav Kapoor, So Ye <u>Yonatan Bisk</u> , Aniruddha Kembh	eon Min, Winson Ha navi, Luca Weihs	an, Jiatai Li		am Neub	oig,	2023
	Conference on Computer Vision	=					
8.	Computational Language A Andy Liu, Hao Zhu, Emmy Liu, The Eleventh International Confe	<u>Yonatan Bisk,</u> Grah	am Neubig				2023
		8					

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.	<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
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	2022
19.	Linguistics (Oral)  FILM: Following Instructions in Language with Modular Methods  So Yeon Min, Devendra Singh Chaplot, Pradeep Ravikumar, Yonatan Bisk, Ruslan Salakhutdinov  The Tenth International Conference on Learning Representations	2022
20.	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, Yonatan Bisk, 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	2021
	The 2021 Conference of the European Chapter of the Association for Computational Linguistics (Oral)	
27.	Knowledge-driven Data Construction for Zero-shot Evaluation in Commonsense Question Answering	2021
	Kaixin Ma, Filip Ilievski, Jonathan Francis, <u>Yonatan Bisk</u> , Eric Nyberg, Alessandro Oltramari 35th AAAI Conference on Artificial Intelligence	
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	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)	
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	2020
	Conference on Empirical Methods in Natural Language Processing (EMNLP) (Oral)	
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	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)	
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, <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 Joint Conference on Natural Language Processing	
35.	Defending Against Neural Fake News	2019
	Rowan Zellers, Ari Holtzman, Hannah Rashkin, <u>Yonatan Bisk</u> , Ali Farhadi, Franziska Roesner, Yejin Choi  Thirty-third Conference on Neural Information Processing Systems	
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.	<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  - RoboCup Best Paper Award finalist	
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	2019
41.	The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) (Oral)  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	2019
43.	Annual Conference of the North American Chapter of the Association for Computational Linguistics  Benchmarking Hierarchical Script Knowledge	2019
	Yonatan Bisk, Jan Buys, Karl Pichotta, Yejin Choi  Annual Conference of the North American Chapter of the Association for Computational Linguistics (Oral)	
44.	Character-based Surprisal as a Model of Reading Difficulty in the Presence of Errors Michael Hahn, Frank Keller, Yonatan Bisk, Yonatan Belinkov	2019
45.	The 41st Annual Meeting of the Cognitive Science Society (Oral)  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	2018
47.	6th International Conference on Learning Representations (Oral)  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 Computational Linguistics (Oral)	2016
50.	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
55.	Document-Topic Hierarchies from Document Graphs Tim Weninger, Yonatan Bisk, Jiawei Han 21st ACM international conference on Information and knowledge management (CIKM 2012)	2012

56.	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	
57.	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
58.	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
59.	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
60.	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
61.	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
62.	Inducing Grammars with and for Neural Machine Translation Ke Tran, Yonatan Bisk 2nd Workshop on Neural Machine Translation	2018
63.	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
64.	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
65.	Unsupervised Neural Hidden Markov Models Ke Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu, Kevin Knight Workshop on Structured Prediction for NLP (Oral)	2016
66.	Induction of Linguistic Structure with Combinatory Categorial Grammars  Yonatan Bisk, Julia Hockenmaier  NAACL HLT Workshop on Induction of Linguistic Structure	2012
	Tech Reports	
67.	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
68.	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
69.	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

70.	Agents Yue Wu, So Yeon Min, <u>Yonatan Bisk</u> , Rus	slan Salakhutdinov, Amos Azaria, Yuanzhi Li, Tom	2023
	Mitchell, Shrimai Prabhumoye  ArXiv		
71.		etween Inference Efficiency in Research and	2023
	<b>Deployment</b> Jared Fernandez, Jacob Kahn, Clara Na, <i>ArXiv</i>	<u>Yonatan Bisk,</u> Emma Strubell	
72.	Singh Chaplot, Changan Chen, Claudia Po Anthony Francis, Chuang Gan, Kristen Gu Aniruddha Kembhavi, Jacob Krantz, Stefa Maksymets, Roberto Martín-Martín, Rooz Silvio Savarese, Manolis Savva, Mohit Shi	I Workshop Tommaso Campari, Angel X. Chang, Devendra érez D'Arpino, Kiana Ehsani, Ali Farhadi, Li Fei-Fei, rauman, David Hall, Winson Han, Unnat Jain, an Lee, Chengshu Li, Sagnik Majumder, Oleksandr ebeh 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.			2019
75.	CHALET: Cornell House Agent Lea Claudia Yan, Dipendra Misra, Andrew Be ArXiv Preprint 1801.07357	<mark>arning 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	vith Combinatory Categorial Grammars	2015
	Thereis Committees		
	Thesis Committees		
_	PhD Lijun Yu	Alex Hauptmann	
_	PhD Liangke Gui	Alex Hauptmann	•
2023	MSR Mateo Guaman Castro	Sebastian Scherer	
2023	PhD Kaixin Ma	Eric Nyberg	
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	Katia Sycara	
2021	PhD Pengcheng Yin	Graham Neubig	
2020	PhD Zihang Dai	Yiming Yang	
2021	MLT Jing Wen	Katerina Fragkiadaki	, CMU

Oliver Kroemer, CMU

2021 Qual Mohit Sharma

	Teaching	
2023	11-851 Talking to Robots	# Students: , FA
	11-767 On-Device Machine Learning	Co-Emma Strubell # Students: , FA
	11-777 MultiModal Machine Learning	Co-Daniel Fried # Students: 107, SP
2022	11-767 On-Device Machine Learning	Co-Emma Strubell # Students: 42, FA
	11-777 MultiModal Machine Learning	# Students: 94, SP
2021	11-767 On-Device Machine Learning	Co-Emma Strubell # Students: 31, FA
	11-777 MultiModal Machine Learning	# Students: 42, SP
	-	
	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,	ligh-school age viewers. Hosted by Jabril $1yr$
2018	ACM Council on Diversity & Inclusion Investigating and	d initiating institutional change within
	ACM on behalf of underrepresented groups.,	1yr
_	Grace Hopper PC member Review submissions to AI Te	•
2016	<b>NCWIT Collegiate Award</b> Review applications for the Na Technology's Collegiate Award honoring college women, IS	
2009	<b>NCWIT Aspirations in Computing</b> Review applications to Information Technology's Award for Aspirations in Computation in the CS, UIUC, ISI	
-	<b>Tech Junket/Women in CS</b> Outreach for local Urbana-C 2yrs	·
2008	Freshman Research Mentor Mentored students to perfor	m research, UTexas 1yr
_	First Bytes Helped organize a summer camp for girls inter	•
_	Co-Founded Breakfast Bytes Professor talks for pre-colle	ege students, UTexas 1yr
_	CS Roadshow CS presentations at Austin middle and high	schools, UTexas 1yr
	(Senior) Area Chair / Action Editor	
2024	Conference on Computer Vision and Pattern Recognit	tion (CVPR) CV
_	International Conference on Learning Representations	(ICLR) $AI/ML$
2023	Neural Information Processing Systems (NeurIPS)	AI/ML
_	International Conference on Machine Learning (ICML	· · · · · · · · · · · · · · · · · · ·
_	AE: Transactions on Machine Learning Research (TM	,
_	Senior AE: ACL Rolling Review (ARR)	NLP
_	Ethics Co-Chair: Association for Computational Linguistics	•
-	Empirical Methods in Natural Language Proc (EMNL	•
2022	International Conference on Learning Representations	
-	Senior MR: Association for the Advancement of Artif	- ,
-	Senior AC: Empirical Methods in Natural Language P	,
_	AE: Transactions on Machine Learning Research (TM	,
_	Senior AE: ACL Rolling Review (ARR)	NLP
_	Neural Information Processing Systems (NeurIPS)	AI/ML
2021	International Conference on Learning Representations	,
_	Association for Computational Linguistics (ACL)	NLP
_	<b>Empirical Methods in Natural Language Proc (EMNL</b>	P) NLP

-	Neural Ir	nformation Processing Systems (NeurIPS)	AI/ML	
_	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 (AAC	L) NLP	
2019	Associati	ion for Computational Linguistics (ACL)	NLP	
2018	Internation	onal Conference on Computational Linguistics	NLP	
2016		ice on Lexical and Computational Semantics (*SEM)	NLP	
	Daviou			
	Review		2224	
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	2019 – 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 Systematics and Sy	ms <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	
		Neural Information Processing Systems	2018 – 2019	
CV	CVPR	Computer Vision and Pattern Recognition	2020, 2023	
		•		
	_	zation (Workshops and Conference)		
2022		<b>p</b> Embodied AI Workshop – Challenge Organizer  Vision and Pattern Recognition		
2021		<b>p</b> Embodied AI Workshop – Challenge Organizer  Vision and Pattern Recognition		
2020	•	p Embodied Vision, Actions & Language Workshop		
		Conference on Computer Vision		
-		<b>p</b> Workshop on Dataset Curation and Security		
2019	Worksho	<b>p</b> Spatial Language Understanding and Grounded communication for Roll nerican Chapter of the Association for Computational Linguistics	potics	

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