## 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	Advisor: Julia Hockenm	l Gramn aier	nar Induction wit	h Combin	rbana-Champaign, natory Categorial Grar	nmars	
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 Aut	onomy (*co-Z Eri	ickson)				2022
	Jashkumar Diyora	he/him	Shruti G	angopadhyay	sh	ie/her	
	Jigar Patel	he/him	Prakhar	Pradeep	he	e/him	
	Shivani Sivakumar	she/her					
MCDS	Embodied Navigation and		Kuchage	a Mahajan	1	/1 •	2022
	Adhokshaja Madhwaraj Sai Vishwas Padigi	he/him he/him	Vineeth	a Mahajan Raddy		e/him e/him	
	Malaika Vijay	she/her		lessica) Zhong		e/mm ie/her	
MCDS	Embodied Dialogue and	'	2110118 (5	ressied) Zhong	511	c/ Her	2022
	Xinyue Chen	she/her	Nikhil G	upta	$h\epsilon$	e/him	
	Benny Jiang	he/him	Shubhan	n Phal	$h\epsilon$	e/him	
	Prasoon Varshney	he/him					
MCDS	Novel Concept Learning						2022
	Bharani Ujjaini Kempaiah	she/her	Linyi Li		sh	ie/her	
MSAII	Visual Patent Search Suchong Dong	-1 /1	Zhiyuan	Cuo	1	/1	2022
	Mansi Goyal	she/her she/her	-	lendez Simon		e/him ie/her	
	Sreenidhi Sundaram	she/her		n Den Berghe		e/him	
MLT		er <i>Multimodal Rea</i>		ii Beii Beigne	LTI		- 2022
MLT	,	m Embodied Visua	· ·		LTI		- 2022
MS	Xiaoyu (Erin) Zhang she/h		•	(co-O Kroemer)	5th		- 2022
Ugrad		Video Summariz		(co-C Paxton)	5011	2021	2022
•	Feiyu (Gavin) Zhu			,			
Intern	Melanie Sclar	Symmetric The	ory-ot-Wind	(co-G Neubig)			2021
Intern	Blessing Bassey	<i>TextVQA</i>					2021
	Journal Publications	5					
1.	The Return of Lexical De Hao Zhu, <u>Yonatan Bisk</u> , Graha Transactions of the Association	am Neubig		zed PCFGs			2020
2.	An HDP Model for Induc	· · · · · · · · · · · · · · · · · · ·	_	Crammars			2013
۷.	Yonatan Bisk, Julia Hockenma		Categoriai	Grammars			2013
	Transactions of the Association		Linguistics				
		·	· ·				
	Conference Publicat	ions					
2			Ch				വവാ
3.	HomeRobot Open Vocab Sriram Yenamandra, Arun Rar				a Singh		2023
	Chaplot, Gunjan Chhablani, A					Ram	
	Ramrakhya, Andrew Szot, Tsu				-		
	Kira, Dhruv Batra, Roozbeh N	1ottaghi, <u>Yonatan B</u>	<u>isk,</u> Chris Pa	xton			
	Thirty-seventh Conference on	Neural Information I	Processing Sy	stems: Competition	Track		
4.	<b>EXCALIBUR:</b> Encouragin						2023
	Hao Zhu, Raghav Kapoor, So		Han, Jiatai Li	, Kaiwen Geng, Grah	am Neub	oig,	
	Yonatan Bisk, Aniruddha Kem Conference on Computer Visio		anition				
_	·		=	Mind			2022
5.	Computational Language Acquisition with Theory of Mind Andy Liu, Hao Zhu, Emmy Liu, Yonatan Bisk, Graham Neubig					2023	
	The Eleventh International Co			tions			
6.	Don't Copy the Teacher:	_			logue		2022
٥.	So Yeon Min, Hao Zhu, Rusla		_		-00		
	Conference on Empirical Meth			ing			
7.	EvEntS ReaLM: Event Re				5		2022
	Evangelia Spiliopoulou, Artido						
	Conference on Empirical Meth	ods in Natural Lang	uage Process	ring			

8.	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
9.	Transformers are Adaptable Task Planners Vidhi Jain, Yixin Lin, Eric Undersander, Yonatan Bisk, Akshara Rai Conference on Robot Learning	2022
10.	Symmetric Machine Theory of Mind Melanie Sclar, Graham Neubig, Yonatan Bisk 39th International Conference on Machine Learning	2022
11.	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
12.	Simulated Language Learning from Communicative Goals and Linguistic Input Hao Zhu, Yonatan Bisk, Graham Neubig Annual Meeting of the Cognitive Science Society (Oral)	2022
13.	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
14.	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
15.	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
16.	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
17.	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
18.	Language Grounding with 3D Objects  Jesse Thomason, Mohit Shridhar, Yonatan Bisk, Chris Paxton, Luke Zettlemoyer  Conference on Robot Learning	2021
19.	TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment Jianwei Yang, Yonatan Bisk, Jianfeng Gao International Conference on Computer Vision	2021
20.	Few-shot Language Coordination by Modeling Theory of Mind Hao Zhu, Graham Neubig, Yonatan Bisk The Thirty-eighth International Conference on Machine Learning	2021
21.	Grounding 'Grounding' in NLP Khyathi Raghavi Chandu, Yonatan Bisk, Alan W Black Findings of The 2021 Conference of the Association for Computational Linguistics	2021
22.	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
23.	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

ALFWorld: Aligning Text and Embodied Environments for Interactive Learning Mohit Shridhar, Xingdi Yuan, Marc-Alexandre Côté, Yonatan Bisk, Adam Trischler, Matthew Hausknecht	2021
International Conference on Learning Representations	
Imagining Grounded Conceptual Representations from Perceptual Information in Situated Guessing Games	2020
Alessandro Suglia, Antonio Vergari, Ioannis Konstas, <u>Yonatan Bisk,</u> Emanuele Bastianelli, Andrea Vanzo, Oliver Lemon	
The 28th International Conference on Computational Linguistics (Oral)	
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)	
RMM: A Recursive Mental Model for Dialog Navigation	2020
Conference on Empirical Methods in Natural Language Processing: Findings	
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	
- , , , ,	
Yonatan Bisk, Rowan Zellers, Ronan Le Bras, Jianfeng Gao, Yejin Choi	2020
- , ,	2019
Xiujun Li, Chunyuan Li, Qiaolin Xia, <u>Yonatan Bisk</u> , Asli Celikyilmaz, Jianfeng Gao, Noah A. Smith, Yejin Choi	2013
	2019
Rowan Zellers, Ari Holtzman, Hannah Rashkin, <u>Yonatan Bisk</u> , Ali Farhadi, Franziska Roesner, Yejin Choi	2010
Rosario Scalise, Jesse Thomason, Yonatan Bisk, Siddhartha Srinivasa	2019
,	2019
Aaron Walsman, <u>Yonatan Bisk</u> , Saadia Gabriel, Dipendra Misra, Yoav Artzi, Yejin Choi, Dieter Fox	2010
2019 IEEE/RSJ International Conference on Intelligent Robots and Systems	
HellaSwag: Can a Machine Really Finish Your Sentence? Rowan Zellers, Ari Holtzman, Yonatan Bisk, Ali Farhadi, Yejin Choi Association for Computational Linguistics	2019
From Recognition to Cognition: Visual Commonsense Reasoning	2019
The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) (Oral)	
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	
	2019
Chris Paxton, <u>Yonatan Bisk</u> , Jesse Thomason, Arunkumar Byravan, Dieter Fox International Conference on Robotics and Automation (ICRA)	2019
Shifting the Baseline: Single Modality Performance on Visual Navigation & QA	2019
Annual Conference of the North American Chapter of the Association for Computational  Linguistics	
	Mohit Shridhar, Xingdi Yuan, Marc-Alexandre Côté, Yonatan Bisk, Adam Trischler, Matthew Hausknecht International Conference on Learning Representations Imagining Grounded Conceptual Representations from Perceptual Information in Situated Guessing Games Alessandro Suglia, Antonio Vergari, Ioannis Konstas, Yonatan Bisk, Emanuele Bastianelli, Andrea Vanzo, Oliver Lemon The 28th International Conference on Computational Linguistics (Oral) 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 Turini, Conference on Empirical Methods in Natural Language Processing (EMNLP) (Oral) RMM: A Recursive Mental Model for Dialog Navigation Homero Roman Roman, Yonatan Bisk, Sess Thomason, Asli Cellivylimaz, Jianfeng Gao Conference on Empirical Methods in Natural Language Processing: Findings 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) PIQA: Reasoning about Physical Commonsense in Natural Language Yonatan Bisk, Rowan Zellers, Ronan Le Bras, Jianfeng Gao, Yejin Choi Thiry-Fourth AAAl Conference on Artificial Intelligence (Oral) Robust Navigation with Language Precessing Sujun Li, Chunyuan Li, Qiaolin Xia, Yonatan Bisk, Asli Cellivylimaz, Jianfeng Gao, Noah A. Smith, Yejin Choi Conference on Batural Language Processing Defending Against Neural Fake News Rowan Zellers, Ari Holtzman, Hannah Rashkin, Yonatan Bisk, Ali Farhadi, Franziska Roesner, Yejin Choi Thiry-third Conference on Neural Information Processing Systems Improving Robot Success Detection using Static Object Data Rosario Scalise, Jesse Thomason, Yonatan Bisk, Ali Farhadi, Yejin Choi Association for Computational Linguistics From Recognition to Cognition: Visual Commonsense Reasoning Rowan Zellers, Ari

39.	Benchmarking Hierarchical Script Knowledge  Yonatan Bisk, Jan Buys, Karl Pichotta, Yejin Choi  Annual Conference of the North American Chapter of the Association for Computational	2019
	Linguistics (Oral)	
40.	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)	
41.	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
42.	Synthetic and Natural Noise Both Break Neural Machine Translation	2018
12.	Yonatan Belinkov, Yonatan Bisk 6th International Conference on Learning Representations (Oral)	2010
43.	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
44.	Natural Language Inference from Multiple Premises Alice Lai, Yonatan Bisk, Julia Hockenmaier	2017
	Eighth International Joint Conference on Natural Language Processing (Oral)	
45.	Natural Language Communication with Robots	2016
	Yonatan Bisk, Deniz Yuret, Daniel Marcu	
	15th Annual Conference of the North American Chapter of the Association for	
16	Computational Linguistics (Oral) Supertagging with LSTMs	2016
46.	Ashish Vaswani, <u>Yonatan Bisk</u> , Kenji Sagae, Ryan Musa	2010
	15th Annual Conference of the North American Chapter of the Association for Computational Linguistics (Short Papers) (Oral)	
47.	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
48.	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)	
49.	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)	
50.	Simple Robust Grammar Induction with Combinatory Categorial Grammar	2012
	Yonatan Bisk, Julia Hockenmaier Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)	
F1	- , ,	2012
51.	Document-Topic Hierarchies from Document Graphs Tim Weninger, Yonatan Bisk, Jiawei Han	2012
	21st ACM international conference on Information and knowledge management (CIKM	
	2012)	
52.	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	
53.	MAEA: Multimodal Attribution for Embodied AI	2022
JJ.	Vidhi Jain, Jayant Sravan Tamarapalli, Sahiti Yerramilli, <u>Yonatan Bisk</u>	2022
	Progress and Challenges in Building Trustworthy Embodied AI at NeurIPS 2022	

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

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		
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		
	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			
	RSS	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	and	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