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	•				
2022 –	Visiting Professor M	1eta Fun	damental AI Resear	ch (FAIR)	1	w/ Dhru	ıv Batra
2021 –	Consulting Professo	r Micros	oft Research				
2019 –	Visiting Researcher	Microso	ft Research		V	v/ Jianfe	eng Gao
2017 –	Postdoctoral Schola University of Washington		n Institute for Artific	ial Intellige	nce	w/ Ye	ejin Choi
2015 –	Postdoctoral Schola Information Sciences In		Iniversity of Southern	ı California		w/ Danie	el Marcu
	Education						
2015	PhD in Computer S Thesis: Unsupervised Advisor: Julia Hockenm Committee: Jason Eisn	d Gramı naier	mar Induction wit	h Combin	rbana-Champaign, aatory Categorial Gra	mmars	
2009	BS in Computer Sci Thesis: The Necessity Neuroevolution Advisor: Risto Miikkula	of Sepa		Logic Wh	en Grounding Language	e using	
	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	she/her	Language to Conti	rol		RI	2021 -
PhD	Tiffany Min	she/her	Embodiment		(co-R Salakhutdinov)	MLD	2021 -
PhD	Yingshan Chang	she/her	Multimodal Reaso	ning		LTI	2022 –
	Research MS S	tudent					
MLT	Jimin Sun	she/her	Embodied Dialogu	ie		LTI	2022 –
	Professional Ma	asters	Students				
MRSD	Assistive Robotics f Abhinav Gupta Praveen Venkatesh Shivam Tripathy	or Elder	he/him he/him he/him	son) Atharva I Shaolin <i>P</i>		he/him he/him	
	Alumni, Interns	, and	Undergraduat	es			
Ugrad	Xiang Fan		Transformer Efficie	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 Auton	nomy (*co-Z Eric	ckson)			2022
	Jashkumar Diyora	he/him	,	angopadhyay	she/h	er
	Jigar Patel	he/him	Prakhar	Pradeep	he/hi	m
	Shivani Sivakumar	she/her				
MCDS	Embodied Navigation and I	nteraction				2022
	Adhokshaja Madhwaraj	he/him	_	a Mahajan	he/hi	
	Sai Vishwas Padigi	he/him	Vineeth	•	he/hi	
	Malaika Vijay	she/her	Zheng (.	Jessica) Zhong	she/h	
MCDS	Embodied Dialogue and To		Nillbil C	···mto	. /	2022
	Xinyue Chen	she/her	Nikhil G Shubhan	•	he/hi	
	Benny Jiang Prasoon Varshney	he/him he/him	Silubilali	II FIIdI	he/hi	m
MCDS	Novel Concept Learning	ne/mm				2022
MCD3	Bharani Ujjaini Kempaiah	she/her	Linyi Li		she/h	
MSAII	Visual Patent Search	siic/ lici	Litty: Li		siic/ ii	2022
IVISAII	Suchong Dong	she/her	Zhiyuan	Guo	he/hi	
	Mansi Goyal	she/her	-	lendez Simon	she/h	
	Sreenidhi Sundaram	she/her		n Den Berghe	he/hi	
MLT	Yingshan Chang she/her	Multimodal Reas		O		0 - 2022
MLT		Embodied Visual	•			0 – 2022
MS	Xiaoyu (Erin) Zhang she/her		•	(co-O Kroemer)		1 – 2022
_				` ,	JUI 202	
Ugrad	Feiyu (Gavin) Zhu	Video Summariza		(co-C Paxton)		2021
Intern	Melanie Sclar	Symmetric Theorem	ry-of-Mind	(co-G Neubig)		2021
Intern	Blessing Bassey	TextVQA				2021
	Journal Publications					
1.	The Return of Lexical Depe Hao Zhu, <u>Yonatan Bisk</u> , Graham Transactions of the Association	n Neubig		zed PCFGs		2020
0		· ·	_	C		2012
2.	An HDP Model for Inducing Yonatan Bisk, Julia Hockenmaie		Lategoriai	Grammars		2013
	Transactions of the Association		l inguistics			
	Transactions of the Association	ror compatationar i	Linguistics			
	Conference Publication	ons				
						2020
3.	Computational Language A			Mind		2023
	Andy Liu, Hao Zhu, Emmy Liu, The Eleventh International Conf.		_	tions		
		•	•		.1	0000
4.	Don't Copy the Teacher: D So Yeon Min, Hao Zhu, Ruslan S			s in Embodied Dia	alogue	2022
	Conference on Empirical Method	·		sin σ		
_		_	-	_	l _a	2022
5.	EvEntS ReaLM: Event Reas Evangelia Spiliopoulou, Artidoro				is	2022
	Conference on Empirical Method					
6.	On Advances in Text Gener	_	_	=	Caso Study	2022
υ.	in Self-Rationalization	adon nom mag	ca Deyoni	a Captioning. A C	Juse Study	2022
	Shruti Palaskar, Akshita Bhagia,	Yonatan Bisk, Flor	rian Metze,	Alan W Black, Ana l	Marasovic	
	Findings of the Conference on E					
7.	Transformers are Adaptable	•		3		2022
	Vidhi Jain, Yixin Lin, Eric Under		i <u>sk</u> , Akshara	Rai		
	Conference on Robot Learning	-	<u>-</u>			
8.	Symmetric Machine Theory	of Mind				2022
	Melanie Sclar, Graham Neubig,					~- -
	39th International Conference or					

9.	A Framework for Learning to Request Rich and Contextually Useful Information	2022
	from Humans Khanh Nguyen, Yonatan Bisk, Hal Daume III 39th International Conference on Machine Learning,	
10.	Simulated Language Learning from Communicative Goals and Linguistic Input Hao Zhu, Yonatan Bisk, Graham Neubig Annual Meeting of the Cognitive Science Society (Oral)	2022
11.	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
12.	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
13.	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	
14.	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
15.	Dependency Induction Through the Lens of Visual Perception Ruisi Su, Shruti Rijhwani, Hao Zhu, Junxian He, Xinyu Wang, <u>Yonatan Bisk</u> , Graham Neubig <i>The SIGNLL Conference on Computational Natural Language Learning</i>	2021
16.	Language Grounding with 3D Objects Jesse Thomason, Mohit Shridhar, Yonatan Bisk, Chris Paxton, Luke Zettlemoyer Conference on Robot Learning	2021
17.	TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment Jianwei Yang, Yonatan Bisk, Jianfeng Gao International Conference on Computer Vision	2021
18.	Few-shot Language Coordination by Modeling Theory of Mind Hao Zhu, Graham Neubig, Yonatan Bisk The Thirty-eighth International Conference on Machine Learning	2021
19.	Grounding 'Grounding' in NLP Khyathi Raghavi Chandu, Yonatan Bisk, Alan W Black Findings of The 2021 Conference of the Association for Computational Linguistics	2021
20.	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
21.	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
22.	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
23.	Imagining Grounded Conceptual Representations from Perceptual Information in	2020
∠ 3.	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)	<i>2</i> 0 <i>2</i> 0

24.	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)	
25.	RMM: A Recursive Mental Model for Dialog Navigation Homero Roman Roman, <u>Yonatan Bisk</u> , Jesse Thomason, Asli Celikyilmaz, Jianfeng Gao Conference on Empirical Methods in Natural Language Processing: Findings	2020
26.	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 <i>The IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i>	
27.	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
28.	Robust Navigation with Language Pretraining and Stochastic Sampling Xiujun Li, Chunyuan Li, Qiaolin Xia, Yonatan Bisk, Asli Celikyilmaz, Jianfeng Gao, Noah A. Smith, Yejin Choi	2019
29.	Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing Defending Against Neural Fake News	2019
	Rowan Zellers, Ari Holtzman, Hannah Rashkin, <u>Yonatan Bisk</u> , Ali Farhadi, Franziska Roesner, Yejin Choi	
20	Thirty-third Conference on Neural Information Processing Systems	2010
30.	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
31.	Early Fusion for Goal Directed Robotic Vision Aaron Walsman, Yonatan Bisk, Saadia Gabriel, Dipendra Misra, Yoav Artzi, Yejin Choi, Dieter Fox	2019
	2019 IEEE/RSJ International Conference on Intelligent Robots and Systems	
32.	HellaSwag: Can a Machine Really Finish Your Sentence? Rowan Zellers, Ari Holtzman, Yonatan Bisk, Ali Farhadi, Yejin Choi Association for Computational Linguistics	2019
33.	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
34.	Tactical Rewind: Self-Correction via Backtracking in Vision-and-Language	2019
Эт.	Navigation Liyiming Ke, Xiujun Li, <u>Yonatan Bisk</u> , Ari Holtzman, Zhe Gan, Jingjing Liu, Jianfeng Gao, Yejin Choi, Siddhartha Srinivasa	2013
	The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) (Oral)	
35.	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
36.	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	
37.	Linguistics 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)	
38.	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)	

39.	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
40.	Synthetic and Natural Noise Both Break Neural Machine Translation Yonatan Belinkov, Yonatan Bisk 6th International Conference on Learning Representations (Oral)	2018
41.	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
42.	Natural Language Inference from Multiple Premises Alice Lai, Yonatan Bisk, Julia Hockenmaier Eighth International Joint Conference on Natural Language Processing (Oral)	2017
43.	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
44.	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
45.	<u>Yonatan Bisk</u> , Siva Reddy, John Blitzer, Julia Hockenmaier, Mark Steedman 2016 Conference on Empirical Methods in Natural Language Processing	2016
46.	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
47.	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
48.	Simple Robust Grammar Induction with Combinatory Categorial Grammar Yonatan Bisk, Julia Hockenmaier Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)	2012
49.	Document-Topic Hierarchies from Document Graphs Tim Weninger, Yonatan Bisk, Jiawei Han 21st ACM international conference on Information and knowledge management (CIKM	2012
50.	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	
51.	MAEA: Multimodal Attribution for Embodied Al Vidhi Jain, Jayant Sravan Tamarapalli, Sahiti Yerramilli, <u>Yonatan Bisk</u> Progress and Challenges in Building Trustworthy Embodied Al at NeurIPS 2022	2022
52.	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
53.	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
54.	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

55.	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
56.	Inducing Grammars with and for Neural Machine Translation Ke Tran, Yonatan Bisk 2nd Workshop on Neural Machine Translation	2018
57.	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
58.	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
59.	Unsupervised Neural Hidden Markov Models Ke Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu, Kevin Knight Workshop on Structured Prediction for NLP (Oral)	2016
60.	Induction of Linguistic Structure with Combinatory Categorial Grammars Yonatan Bisk, Julia Hockenmaier NAACL HLT Workshop on Induction of Linguistic Structure	2012
	Tech Reports	
61.	Object Goal Navigation with End-to-End Self-Supervision So Yeon Min, Yao-Hung Hubert Tsai, Wei Ding, Ali Farhadi, Ruslan Salakhutdinov, Yonatan Bisk, Jian Zhang ArXiv	2022
62.	Retrospectives on the Embodied Al Workshop Matt Deitke, Dhruv Batra, Yonatan Bisk, Tommaso Campari, Angel X. Chang, Devendra Singh Chaplot, Changan Chen, Claudia Pérez D'Arpino, Kiana Ehsani, Ali Farhadi, Li Fei-Fei, Anthony Francis, Chuang Gan, Kristen Grauman, David Hall, Winson Han, Unnat Jain, Aniruddha Kembhavi, Jacob Krantz, Stefan Lee, Chengshu Li, Sagnik Majumder, Oleksandr Maksymets, Roberto Martín-Martín, Roozbeh Mottaghi, Sonia Raychaudhuri, Mike Roberts, Silvio Savarese, Manolis Savva, Mohit Shridhar, Niko Sünderhauf, Andrew Szot, Ben Talbot, Joshua B. Tenenbaum, Jesse Thomason, Alexander Toshev, Joanne Truong, Luca Weihs, Jiajun Wu ArXiv	2022
63.	Training Vision-Language Transformers from Captions Alone Liangke Gui, Qiuyuan Huang, Alex Hauptmann, Yonatan Bisk, Jianfeng Gao ArXiv	2022
64.	Multi-View Learning for Vision-and-Language Navigation Qiaolin Xia, Xiujun Li, Chunyuan Li, Yonatan Bisk, Zhifang Sui, Jianfeng Gao, Yejin Choi, Noah A. Smith ArXiv	2020
65.	FIND: Identifying Functionally and Structurally Important Features in Protein Sequences with Deep Neural Networks Ranjani Murali, James Hemp, Victoria Orphan, Yonatan Bisk bioRxiv	2019
66.	CHALET: Cornell House Agent Learning Environment Claudia Yan, Dipendra Misra, Andrew Bennett, Aaron Walsman, Yonatan Bisk, Yoav Artzi ArXiv Preprint 1801.07357	2018
67.	Unsupervised Grammar Induction with Combinatory Categorial Grammars Yonatan Bisk University of Illinois at Urbana-Champaign	2015

Thesis Committees

- PhD Nicholas Botzer

- **PhD** Kaixin Ma

Tim Weninger, Notre Dame Eric Nyberg, CMU

_	- PhD Dylan Ebert	Ellie Pavlick, Brown
2022	PhD Shikib Mehri	Maxine Eskenazi , CMU
2022	PhD Shruti Palaskar	Alan Black and Florian Metze, 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, CMU
2022	MLT Aishwarya Jadhav	Katia Sycara, CMU
2021	PhD Pengcheng Yin	Graham Neubig, CMU
2020	PhD Zihang Dai	Yiming Yang, CMU
2021	MLT Jing Wen	Katerina Fragkiadaki, CMU
2021	Qual Mohit Sharma	Oliver Kroemer, CMU
	Teaching	
2021	11-777 MultiModal Machine Learning	# Students: 42, SP
2021	11-767 On-Device Machine Learning	Co-Emma Strubell # Students: 31, FA
2022	2 11-777 MultiModal Machine Learning	# Students: 94, SP
2022	2 11-767 On-Device Machine Learning	Co-Emma Strubell # Students: 42, FA
	Diversity and Inclusion	
2022	NAACL 2022 DEI Co-Chair	
2021	Restructuring of LTI PhD Admissions,	ongoing
2020	LTI DEI Committee,	2yrs
2019	CrashCourse AI Educational YouTube series Jabril Ashe. Co-Written with Lana Yarosh a	s targeted at high-school age viewers. Hosted by nd Tim Weninger, 1yr
2018	ACM Council on Diversity & Inclusion In ACM on behalf of underrepresented groups.,	vestigating and initiating institutional change within $1yr$
_	- Grace Hopper PC member Review submis	ssions to Al Technical Track, 1yr
2016	NCWIT Collegiate Award Review applicate Information Technology's Collegiate Award h	
2009		v applications for the National Center for Women &
		ons in Computing which supports high-school girls
	interested in CS, UIUC, ISI	byrs
_	2yrs	local Urbana-Champaign pre-college students, UIUC
2008		dents to perform research, UTexas 1yr
_	F: . D	
_	- Co-Founded Breakfast Bytes Professor ta	lks for pre-college students, UTexas 1yr
_	- CS Roadshow CS presentations at Austin n	niddle and high schools, UTexas 1yr
	·	
_	Organization (Workshops and C	Conference)
2022	Workshop Embodied Al Workshop – Challe Computer Vision and Pattern Recognition	nge Organizer
2021		
	Workshop Embodied Al Workshop – Challe	nge Organizer
	Workshop Embodied Al Workshop – Challe Computer Vision and Pattern Recognition	nge Organizer

European Conference on Computer Vision

NeurIPS

Workshop Workshop on Dataset Curation and Security

- Workshop Spatial Language Understanding and Grounded communication for Robotics
 North American Chapter of the Association for Computational Linguistics
- 2018 Conference Social Media Chair

North American Chapter of the Association for Computational Linguistics

- Workshop Generalization in the Age of Deep Learning
 North American Chapter of the Association for Computational Linguistics
- Workshop Wordplay: Reinformcent and Language Learning in Text-Based Games NeurIPS
- 2017 **Conference** Student Scholarship Chair and Student Volunteer Coordinator Conference on Empirical Methods in Natural Language Processing
 - Workshop Language Grounding for Robotics
 Conference of the Association for Computational Linguistics

Area Chair / Action Editor

- 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	2017, 2018
	CL	Computational Linguistics Journal	2017 – 2022
	CoLing	International Conference on Computational Linguistics	2016
	CoNLL	Conference on Computational Natural Language Learning	2016 – 2018
	EACL	European Chapter of the Association for Computational Linguistics	2014, 17, 20
	EMNLP	Empirical Methods in Natural Language Processing	2013 – 2020
	IJCNLP	International Joint Conference on Natural Language Processing	2017
	NAACL	N. American Chapter of the Association for Computational Ling	2016 – 2019
	NLE	Natural Language Engineering Journal	2016
	*SEM	Joint Conference on Lexical and Computational Semantics	2020
	TACL	Transactions of the Assoc. for Computational Linguistics	2019

Robo	CoRL	Conference on Robot Learning	2019 – 2021
	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	$\ensuremath{\mathrm{IEEE}/\mathrm{RSJ}}$ International Conference on Intelligent Robots and Systems	2019
	RA-L	IEEE Robotics and Automation Letters	2019
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

Invitations and Talks

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