

Yonatan Bisk

Assistant Professor of Computer Science

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he/him

Positions

- 2021 – **Consulting Professor** *Microsoft Research*
- 2020 – **Assistant Professor** *Carnegie Mellon University*
Language Technologies Institute
Robotics Institute (courtesy)
- 2019 – **Visiting Researcher** *Microsoft Research* w/ *Jianfeng Gao*
- 2017 – **Postdoctoral Scholar**
University of Washington & Allen Institute for Artificial Intelligence w/ *Yejin Choi*
- 2015 – **Postdoctoral Scholar**
Information Sciences Institute, University of Southern California w/ *Daniel Marcu*

Education

- 2015 **PhD in Computer Science** *The University of Illinois at Urbana-Champaign*,
Thesis: **Unsupervised Grammar Induction with Combinatory Categorical Grammars**
Advisor: Julia Hockenmaier
Committee: Jason Eisner, Dan Roth, ChengXiang Zhai
- 2009 **BS in Computer Science** *The University of Texas at Austin* Turing Scholar,
Thesis: The Necessity of Separating Control and Logic When Grounding Language using Neuroevolution
Advisor: Risto Miikkulainen Second Reader: Raymond Mooney

PhD Students

PhD	Hao Zhu	he/him	<i>Theory of Mind</i>	(co-G Neubig)	LTI	2019 –
PhD	Jared Fernandez	he/him	<i>Efficiency</i>	(co-E Strubell)	LTI	2020 –
PhD	Vidhi Jain	she/her	<i>Language to Control</i>		RI	2021 –
PhD	Tiffany Min	she/her	<i>Embodiment</i>	(co-R Salakhutdinov)	MLD	2021 –
PhD	Yingshan Chang	she/her	<i>Multimodal Reasoning</i>		LTI	2022 –

Professional Masters Students

MRSD	Modular Teleop with Autonomy (*co-Z Erickson)					2022
	Jashkumar Diyora	he/him	Shruti Gangopadhyay	she/her		
	Jigar Patel	he/him	Prakhar Pradeep	he/him		
	Shivani Sivakumar	she/her				
MCDS	Embodied Navigation and Interaction					2022
	Adhokshaja Madhwaraj	he/him	Kushagra Mahajan	he/him		
	Sai Vishwas Padigi	he/him	Vineeth Reddy	he/him		
	Malaika Vijay	she/her	Zheng (Jessica) Zhong	she/her		
MCDS	Embodied Dialogue and ToM					2022
	Xinyue Chen	she/her	Nikhil Gupta	he/him		
	Benny Jiang	he/him	Shubham Phal	he/him		
	Prasoon Varshney	he/him				
MCDS	Novel Concept Learning					2022
	Bharani Ujjaini Kempaiah	she/her	Linyi Li	she/her		

Alumni, Interns, and Undergraduates

MSAI	Visual Patent Search				2022
	Suchong Dong	she/her	Zhiyuan Guo	he/him	
	Mansi Goyal	she/her	Marta Mendez Simon	she/her	
	Sreenidhi Sundaram	she/her	Leon Van Den Berghe	he/him	
MLT	Yingshan Chang	she/her	<i>Multimodal Reasoning</i>	LTI	2020 – 2022
MLT	Josh Zhanson	he/him	<i>Embodied Visual Reps</i>	LTI	2020 – 2022
MS	Xiaoyu (Erin) Zhang	she/her	<i>Collaborative Robots</i> (co-O Kroemer)	5th	2021 – 2022
Ugrad	Feiyu (Gavin) Zhu		<i>Video Summarization</i> (co-C Paxton)		2021
Intern	Melanie Sclar		<i>Symmetric Theory-of-Mind</i> (co-G Neubig)		2021
Intern	Blessing Bassey		<i>TextVQA</i>		2021

Journal Publications

1. **The Return of Lexical Dependencies: Neural Lexicalized PCFGs** 2020
Hao Zhu, Yonatan Bisk, Graham Neubig,
Transactions of the Association for Computational Linguistics
2. **An HDP Model for Inducing Combinatory Categorical Grammars** 2013
Yonatan Bisk, Julia Hockenmaier,
Transactions of the Association for Computational Linguistics

Conference Publications

3. **Symmetric Machine Theory of Mind** 2022
Melanie Sclar, Graham Neubig, Yonatan Bisk,
39th International Conference on Machine Learning
4. **A Framework for Learning to Request Rich and Contextually Useful Information from Humans** 2022
Khanh Nguyen, Yonatan Bisk, Hal Daume III,
39th International Conference on Machine Learning,
5. **Simulated Language Learning from Communicative Goals and Linguistic Input** 2022
Hao Zhu, Yonatan Bisk, Graham Neubig,
Proceedings of the Annual Meeting of the Cognitive Science Society, (Oral)
6. **HEAR 2021: Holistic Evaluation of Audio Representations** 2022
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
7. **KAT: A Knowledge Augmented Transformer for Vision-and-Language** 2022
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)
8. **FILM: Following Instructions in Language with Modular Methods** 2022
So Yeon Min, Devendra Singh Chaplot, Pradeep Ravikumar, Yonatan Bisk, Ruslan Salakhutdinov,
The Tenth International Conference on Learning Representations
9. **WebQA: Multihop and Multimodal QA** 2022
Yingshan Chang, Mridu Narang, Hisami Suzuki, Guihong Cao, Jianfeng Gao, Yonatan Bisk,
Conference on Computer Vision and Pattern Recognition, (Oral)
10. **Dependency Induction Through the Lens of Visual Perception** 2021
Ruisi Su, Shruti Rijhwani, Hao Zhu, Junxian He, Xinyu Wang, Yonatan Bisk, Graham Neubig,
The SIGNLL Conference on Computational Natural Language Learning
11. **Language Grounding with 3D Objects** 2021
Jesse Thomason, Mohit Shridhar, Yonatan Bisk, Chris Paxton, Luke Zettlemoyer,
Conference on Robot Learning
12. **TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment** 2021
Jianwei Yang, Yonatan Bisk, Jianfeng Gao,
International Conference on Computer Vision

13. **Few-shot Language Coordination by Modeling Theory of Mind** 2021
Hao Zhu, Graham Neubig, [Yonatan Bisk](#),
The Thirty-eighth International Conference on Machine Learning
14. **Grounding ‘Grounding’ in NLP** 2021
Khyathi Raghavi Chandu, [Yonatan Bisk](#), Alan W Black,
Findings of The 2021 Conference of the Association for Computational Linguistics
15. **An Empirical Study on the Generalization Power of Neural Representations Learned via Visual Guessing Games** 2021
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)
16. **Knowledge-driven Data Construction for Zero-shot Evaluation in Commonsense Question Answering** 2021
Kaixin Ma, Filip Ilievski, Jonathan Francis, [Yonatan Bisk](#), Eric Nyberg, Alessandro Oltramari,
35th AAAI Conference on Artificial Intelligence
17. **ALFWorld: Aligning Text and Embodied Environments for Interactive Learning** 2021
Mohit Shridhar, Xingdi Yuan, Marc-Alexandre Côté, [Yonatan Bisk](#), Adam Trischler, Matthew Hausknecht,
Proceedings of the International Conference on Learning Representations
18. **Imagining Grounded Conceptual Representations from Perceptual Information in Situated Guessing Games** 2020
Alessandro Suglia, Antonio Vergari, Ioannis Konstas, [Yonatan Bisk](#), Emanuele Bastianelli, Andrea Vanzo, Oliver Lemon,
The 28th International Conference on Computational Linguistics, (Oral)
19. **Experience Grounds Language** 2020
[Yonatan Bisk](#), Ari Holtzman, Jesse Thomason, Jacob Andreas, Yoshua Bengio, Joyce Chai, Mirella Lapata, Angeliki Lazaridou, Jonathan May, Aleksandr Nisnevich, Nicolas Pinto, Joseph Turian,
Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP), (Oral)
20. **RMM: A Recursive Mental Model for Dialog Navigation** 2020
Homero Roman Roman, [Yonatan Bisk](#), Jesse Thomason, Asli Celikyilmaz, Jianfeng Gao,
Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing: Findings
21. **ALFRED: A Benchmark for Interpreting Grounded Instructions for Everyday Tasks** 2020
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)
22. **PIQA: Reasoning about Physical Commonsense in Natural Language** 2020
[Yonatan Bisk](#), Rowan Zellers, Ronan Le Bras, Jianfeng Gao, Yejin Choi,
Thirty-Fourth AAAI Conference on Artificial Intelligence, (Oral)
23. **Robust Navigation with Language Pretraining and Stochastic Sampling** 2019
Xiujuan Li, Chunyuan Li, Qiaolin Xia, [Yonatan Bisk](#), Asli Celikyilmaz, Jianfeng Gao, Noah A. Smith, Yejin Choi,
Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing
24. **Defending Against Neural Fake News** 2019
Rowan Zellers, Ari Holtzman, Hannah Rashkin, [Yonatan Bisk](#), Ali Farhadi, Franziska Roesner, Yejin Choi,
Thirty-third Conference on Neural Information Processing Systems
25. **Improving Robot Success Detection using Static Object Data** 2019
Rosario Scalise, Jesse Thomason, [Yonatan Bisk](#), Siddhartha Srinivasa,
Proceedings of the 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems
26. **Early Fusion for Goal Directed Robotic Vision** 2019
Aaron Walsman, [Yonatan Bisk](#), Saadia Gabriel, Dipendra Misra, Yoav Artzi, Yejin Choi, Dieter Fox,
Proceedings of the 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems
27. **HellaSwag: Can a Machine Really Finish Your Sentence?** 2019
Rowan Zellers, Ari Holtzman, [Yonatan Bisk](#), Ali Farhadi, Yejin Choi,
Proceedings of the Association for Computational Linguistics
28. **From Recognition to Cognition: Visual Commonsense Reasoning** 2019
Rowan Zellers, [Yonatan Bisk](#), Ali Farhadi, Yejin Choi,
The IEEE Conference on Computer Vision and Pattern Recognition (CVPR), (Oral)

29. **Tactical Rewind: Self-Correction via Backtracking in Vision-and-Language Navigation** 2019
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)
30. **Prospection: Interpretable Plans From Language By Predicting the Future** 2019
Chris Paxton, Yonatan Bisk, Jesse Thomason, Arunkumar Byravan, Dieter Fox,
Proceedings of the International Conference on Robotics and Automation (ICRA)
31. **Shifting the Baseline: Single Modality Performance on Visual Navigation & QA** 2019
Jesse Thomason, Daniel Gordon, Yonatan Bisk,
Proceedings of the Annual Conference of the North American Chapter of the Association for Computational Linguistics
32. **Benchmarking Hierarchical Script Knowledge** 2019
Yonatan Bisk, Jan Buys, Karl Pichotta, Yejin Choi,
Proceedings of the Annual Conference of the North American Chapter of the Association for Computational Linguistics, (Oral)
33. **Character-based Surprisal as a Model of Reading Difficulty in the Presence of Errors** 2019
Michael Hahn, Frank Keller, Yonatan Bisk, Yonatan Belinkov,
The 41st Annual Meeting of the Cognitive Science Society, (Oral)
34. **SWAG: A Large-Scale Adversarial Dataset for Grounded Commonsense Inference** 2018
Rowan Zellers, Yonatan Bisk, Roy Schwartz, Yejin Choi,
Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP), (Oral)
35. **Synthetic and Natural Noise Both Break Neural Machine Translation** 2018
Yonatan Belinkov, Yonatan Bisk,
Proceedings of the 6th International Conference on Learning Representations, (Oral)
36. **Learning Interpretable Spatial Operations in a Rich 3D Blocks World** 2018
Yonatan Bisk, Kevin Shih, Yejin Choi, Daniel Marcu,
Proceedings of the Thirty-Second Conference on Artificial Intelligence (AAAI-18)
37. **Natural Language Inference from Multiple Premises** 2017
Alice Lai, Yonatan Bisk, Julia Hockenmaier,
Proceedings of the Eighth International Joint Conference on Natural Language Processing, (Oral)
38. **Natural Language Communication with Robots** 2016
Yonatan Bisk, Deniz Yuret, Daniel Marcu,
Proceedings of the 15th Annual Conference of the North American Chapter of the Association for Computational Linguistics, (Oral)
39. **Supertagging with LSTMs** 2016
Ashish Vaswani, Yonatan Bisk, Kenji Sagae, Ryan Musa,
Proceedings of the 15th Annual Conference of the North American Chapter of the Association for Computational Linguistics (Short Papers), (Oral)
40. **Evaluating Induced CCG Parsers on Grounded Semantic Parsing** 2016
Yonatan Bisk, Siva Reddy, John Blitzer, Julia Hockenmaier, Mark Steedman,
Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing
41. **Probing the Linguistic Strengths and Limitations of Unsupervised Grammar Induction** 2015
Yonatan Bisk, Julia Hockenmaier,
Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing (Volume 1: Long Papers), (Oral)
42. **Labeled Grammar Induction with Minimal Supervision** 2015
Yonatan Bisk, Christos Christodoulopoulos, Julia Hockenmaier,
Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing (Volume 2: Short Papers)
43. **Simple Robust Grammar Induction with Combinatory Categorical Grammar** 2012
Yonatan Bisk, Julia Hockenmaier,
Proceedings of the Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)
44. **Document-Topic Hierarchies from Document Graphs** 2012
Tim Weneringer, Yonatan Bisk, Jiawei Han,
Proceedings of the 21st ACM international conference on Information and knowledge management (CIKM 2012)

45. **Normal-form parsing for CCGs with generalized composition and type-raising** 2010
Julia Hockenmaier, [Yonatan Bisk](#),
Proceedings of the 23rd International Conference on Computational Linguistics (Coling 2010)

Workshop Publications

46. **Worst of Both Worlds: Biases Compound in Pre-trained Vision-and-Language Models** 2022
Tejas Srinivasan, [Yonatan Bisk](#),
4th Workshop on Gender Bias in Natural Language Processing
47. **KB-VLP: Knowledge Based Vision and Language Pretraining** 2021
Kezhen Chen, Qiuyuan Huang, [Yonatan Bisk](#), Daniel McDuff, Jianfeng Gao,
ICML21 Workshop on Self-Supervised Learning
48. **A Benchmark for Structured Procedural Knowledge Extraction from Cooking Videos** 2020
Frank F. Xu, Lei Ji, Botian Shi, Junyi Du, Graham Neubig, [Yonatan Bisk](#), Nan Duan,
Workshop on NLP Beyond Text
49. **Inducing Grammars with and for Neural Machine Translation** 2018
Ke Tran, [Yonatan Bisk](#),
Proceedings of the 2nd Workshop on Neural Machine Translation
50. **Bridging HMMs and RNNs through Architectural Transformations** 2018
Jan Buys, [Yonatan Bisk](#), Yejin Choi,
32nd Conference on Neural Information Processing Systems (NIPS 2018), IRASL workshop
51. **Towards a Dataset for Human Computer Communication via Grounded Language Acquisition** 2016
[Yonatan Bisk](#), Daniel Marcu, William Wong,
Proceedings of the AAAI 2016 Workshop on Symbiotic Cognitive Systems
52. **Unsupervised Neural Hidden Markov Models** 2016
Ke Tran, [Yonatan Bisk](#), Ashish Vaswani, Daniel Marcu, Kevin Knight,
Proceedings of the Workshop on Structured Prediction for NLP, (Oral)
53. **Induction of Linguistic Structure with Combinatory Categorical Grammars** 2012
[Yonatan Bisk](#), Julia Hockenmaier,
NAACL HLT Workshop on Induction of Linguistic Structure

Tech Reports

54. **Training Vision-Language Transformers from Captions Alone** 2022
Liangke Gui, Qiuyuan Huang, Alex Hauptmann, [Yonatan Bisk](#), Jianfeng Gao,
ArXiv
55. **Transformers are Adaptable Task Planners** 2022
Vidhi Jain, Yixin Lin, Eric Undersander, [Yonatan Bisk](#), Akshara Rai,
ArXiv
56. **Training Vision-Language Transformers from Captions Alone** 2022
Liangke Gui, Qiuyuan Huang, Alex Hauptmann, [Yonatan Bisk](#), Jianfeng Gao,
ArXiv
57. **Multi-View Learning for Vision-and-Language Navigation** 2020
Qiaolin Xia, Xiujuan Li, Chunyuan Li, [Yonatan Bisk](#), Zhifang Sui, Jianfeng Gao, Yejin Choi, Noah A. Smith,
ArXiv
58. **FIND: Identifying Functionally and Structurally Important Features in Protein Sequences with Deep Neural Networks** 2019
Ranjani Murali, James Hemp, Victoria Orphan, [Yonatan Bisk](#),
bioRxiv
59. **CHALET: Cornell House Agent Learning Environment** 2018
Claudia Yan, Dipendra Misra, Andrew Bennett, Aaron Walsman, [Yonatan Bisk](#), Yoav Artzi,
ArXiv Preprint 1801.07357
60. **Unsupervised Grammar Induction with Combinatory Categorical Grammars** 2015
[Yonatan Bisk](#),
University of Illinois at Urbana-Champaign

Thesis Committees

	– PhD <i>Nicholas Botzer</i>	Tim Weninger, Notre Dame
	– PhD <i>Kaixin Ma</i>	Eric Nyberg, CMU
	– PhD <i>Dylan Ebert</i>	Ellie Pavlick, Brown
2022	PhD <i>Shikib Mehri</i>	Maxine Eskenazi, CMU
2022	PhD <i>Shruti Palaskar</i>	Alan Black and Florian Metze, CMU
2022	PhD <i>Evangelia Spiliopoulou</i>	Ed Hovy, CMU
2022	PhD <i>Dheeraj Rajagopal</i>	Ed Hovy, CMU
2022	PhD <i>Volkan Cirik</i>	Louis-Philippe Morency and Taylor Berg-Kirkpatrick, CMU
2022	MLT <i>Aishwarya Jadhav</i>	Katia Sycara, CMU
2021	PhD <i>Pengcheng Yin</i>	Graham Neubig, CMU
2020	PhD <i>Zihang Dai</i>	Yiming Yang, CMU
2021	MLT <i>Jing Wen</i>	Katerina Fragkiadaki, CMU
2021	Qual <i>Mohit Sharma</i>	Oliver Kroemer, CMU

Teaching

2021	11-777 MultiModal Machine Learning	# Students: 42, SP
2021	11-767 On-Device Machine Learning	<i>Co-Emma Strubell</i> # Students: 31, FA
2022	11-777 MultiModal Machine Learning	# Students: 94, SP

Diversity and Inclusion

2022	NAACL 2022 DEI Co-Chair,	ongoing
2020	LTI DEI Committee,	ongoing
2019	CrashCourse AI Educational YouTube series targeted at high-school age viewers. Hosted by Jabril Ashe. Co-Written with Lana Yarosh and Tim Weninger,	1yr
2018	ACM Council on Diversity & Inclusion Investigating and initiating institutional change within ACM on behalf of underrepresented groups.,	1yr
	– Grace Hopper PC member Review submissions to AI Technical Track,	1yr
2016	NCWIT Collegiate Award Review applications for the National Center for Women & Information Technology's Collegiate Award honoring college women, ISI	3yrs
2009	NCWIT Aspirations in Computing Review applications for the National Center for Women & Information Technology's Award for Aspirations in Computing which supports high-school girls interested in CS, UIUC, ISI	6yrs
	– Tech Junket/Women in CS Outreach for local Urbana-Champaign pre-college students, UIUC	2yrs
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

Funding and Awards

2021	NSF EAGER Co-PI Graham Neubig, Dan Yurovsky, Aug 2021 – Dec 2022, \$300K	
	– LTI Junior Chair , Aug 2021 – Aug 2023	
2020	Facebook RFP <i>Learning Dynamic Multimodal Inference for On-Device VQA</i> Co-PI Emma Strubell, Sept 2020 – May 2021, \$75K	
2020	Google exploreCSR <i>Broad & Inclusive Language Technology (BILT) @ CMU LTI</i> Co-PI Emma Strubell, Graham Neubig, Summer 2021, \$15k	

Organization (Workshops and Conference)

- 2022 **Workshop** *Embodied AI Workshop – Challenge Organizer*
Computer Vision and Pattern Recognition
- 2021 **Workshop** *Embodied AI Workshop – Challenge Organizer*
Computer Vision and Pattern Recognition
- 2020 **Workshop** *Embodied Vision, Actions & Language Workshop*
European Conference on Computer Vision
 - **Workshop** *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
- 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: Reinforcement 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
	RSS	Robotics: Science and Systems	2022
	HRI	Human Robot Interaction	2020 – 2022
	ICRA	International Conference on Robotics and Automation	2019
	IJRR	International Journal of Robotics Research	2017
	IROS	IEEE/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

- 2022 **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
- 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-AI 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 AI 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 AI*
- 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*