

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

## Professional Masters Students

MRSD	<b>Modular Teleop with Autonomy (*co-Z Erickson)</b>					2022
	Jashkumar Diyora	he/him	Shruti Gangopadhyay	she/her		
	Jigar Patel	he/him	Prakhar Pradeep	he/him		
	Shivani Sivakumar	she/her				
MCDS	<b>Embodied Navigation and Interaction</b>					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	<b>Embodied Dialogue and ToM</b>					2022
	Xinyue Chen	she/her	Nikhil Gupta	he/him		
	Benny Jiang	he/him	Shubham Phal	he/him		
	Prasoon Varshney	he/him				
MCDS	<b>Novel Concept Learning</b>					2022
	Bharani Ujjaini Kempaiah	she/her	Linyi Li	she/her		

## Alumni, Interns, and Undergraduates

MSAIL	<b>Visual Patent Search</b>				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	<b>Yingshan Chang</b>	she/her	<i>Multimodal Reasoning</i>	LTI	2020 – 2022
MLT	<b>Josh Zhanson</b>	he/him	<i>Embodied Visual Reps</i>	LTI	2020 – 2022
MS	<b>Xiaoyu (Erin) Zhang</b>	she/her	<i>Collaborative Robots</i> (co-O Kroemer)	5th	2021 – 2022
Ugrad	<b>Feiyu (Gavin) Zhu</b>		<i>Video Summarization</i> (co-C Paxton)		2021
Intern	<b>Melanie Sclar</b>		<i>Symmetric Theory-of-Mind</i> (co-G Neubig)		2021
Intern	<b>Blessing Bassey</b>		<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. **Transformers are Adaptable Task Planners** 2022  
Vidhi Jain, Yixin Lin, Eric Undersander, [Yonatan Bisk](#), Akshara Rai,  
*ArXiv*
55. **Training Vision-Language Transformers from Captions Alone** 2022  
Liangke Gui, Qiuyuan Huang, Alex Hauptmann, [Yonatan Bisk](#), Jianfeng Gao,  
*ArXiv*
56. **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*
57. **FIND: Identifying Functionally and Structurally Important Features in Protein Sequences with Deep Neural Networks** 2019  
Ranjani Murali, James Hemp, Victoria Orphan, [Yonatan Bisk](#),  
*bioRxiv*
58. **CHALET: Cornell House Agent Learning Environment** 2018  
Claudia Yan, Dipendra Misra, Andrew Bennett, Aaron Walsman, [Yonatan Bisk](#), Yoav Artzi,  
*ArXiv Preprint 1801.07357*
59. **Unsupervised Grammar Induction with Combinatory Categorical Grammars** 2015  
[Yonatan Bisk](#),  
*University of Illinois at Urbana-Champaign*

## Thesis Committees

- **PhD** *Nicholas Botzer* Tim Weninger, Notre Dame
- **PhD** *Kaixin Ma* Eric Nyberg, CMU

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

## Teaching

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

## Diversity and Inclusion

2022	<b>NAACL 2022 DEI Co-Chair,</b>	ongoing
2020	<b>LTI DEI Committee,</b>	ongoing
2019	<b>CrashCourse AI</b> Educational YouTube series targeted at high-school age viewers. Hosted by Jabril Ashe. Co-Written with Lana Yarosh and Tim Weneringer,	1yr
2018	<b>ACM Council on Diversity &amp; Inclusion</b> Investigating and initiating institutional change within ACM on behalf of underrepresented groups.,	1yr
	– <b>Grace Hopper PC member</b> Review submissions to AI Technical Track,	1yr
2016	<b>NCWIT Collegiate Award</b> Review applications for the National Center for Women & Information Technology's Collegiate Award honoring college women, ISI	3yrs
2009	<b>NCWIT Aspirations in Computing</b> 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
	– <b>Tech Junket/Women in CS</b> Outreach for local Urbana-Champaign pre-college students, UIUC	2yrs
2008	<b>Freshman Research Mentor</b> Mentored students to perform research, UTexas	1yr
	– <b>First Bytes</b> Helped organize a summer camp for girls interested in CS, UTexas	
	– <b>Co-Founded Breakfast Bytes</b> Professor talks for pre-college students, UTexas	1yr
	– <b>CS Roadshow</b> CS presentations at Austin middle and high schools, UTexas	1yr

## Funding and Awards

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

## Organization (Workshops and Conference)

2022	<b>Workshop</b> <i>Embodied AI Workshop – Challenge Organizer</i> Computer Vision and Pattern Recognition
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- 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	<b>ARR</b>	Association for Computational Linguistics Rolling Review	2021
	<b>ACL</b>	Association for Computational Linguistics	2017, 2018
	<b>CL</b>	Computational Linguistics Journal	2017 – 2022
	<b>CoLing</b>	International Conference on Computational Linguistics	2016
	<b>CoNLL</b>	Conference on Computational Natural Language Learning	2016 – 2018
	<b>EACL</b>	European Chapter of the Association for Computational Linguistics	2014, 17, 20
	<b>EMNLP</b>	Empirical Methods in Natural Language Processing	2013 – 2020
	<b>IJCNLP</b>	International Joint Conference on Natural Language Processing	2017

	<b>NAACL</b>	N. American Chapter of the Association for Computational Ling	2016 – 2019
	<b>NLE</b>	Natural Language Engineering Journal	2016
	<b>*SEM</b>	Joint Conference on Lexical and Computational Semantics	2020
	<b>TACL</b>	Transactions of the Assoc. for Computational Linguistics	2019
Robo	<b>CoRL</b>	Conference on Robot Learning	2019 – 2021
	<b>AURO</b>	Autonomous Robots	2022
	<b>RSS</b>	Robotics: Science and Systems	2022
	<b>HRI</b>	Human Robot Interaction	2020 – 2022
	<b>ICRA</b>	International Conference on Robotics and Automation	2019
	<b>IJRR</b>	International Journal of Robotics Research	2017
	<b>IROS</b>	IEEE/RSJ International Conference on Intelligent Robots and Systems	2019
	<b>RA-L</b>	IEEE Robotics and Automation Letters	2019
AI/ML	<b>AAAI</b>	Association for the Advancement of Artificial Intelligence	2018, 2021
	<b>ICLR</b>	International Conference on Learning Representations	2019 – 2020
	<b>ICML</b>	International Conference on Machine Learning	2019
	<b>IJCAI</b>	International Joint Conference on Artificial Intelligence	2019
	<b>NeurIPS</b>	Neural Information Processing Systems	2018 – 2019
CV	<b>CVPR</b>	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*