

# Yonatan Bisk

Assistant Professor of Computer Science

GHC 6703

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he/him

## Positions

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

## Education

2015	<b>PhD in Computer Science</b> <i>The University of Illinois at Urbana-Champaign</i> , Thesis: <b>Unsupervised Grammar Induction with Combinatory Categorical Grammars</b> Advisor: Julia Hockenmaier Committee: Jason Eisner, Dan Roth, ChengXiang Zhai
2009	<b>BS in Computer Science</b> <i>The University of Texas at Austin</i> 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 –

## Research Masters Students

MLT	<b>Josh Zhanson</b>	he/him	<i>Embodied Visual Reps</i>		LTI	2020 –
MLT	<b>Yingshan Chang</b>	she/her	<i>Multimodal Reasoning</i>		LTI	2020 –
MS	<b>Xiaoyu Zhang</b>	she/her	<i>Collaborative Robot Art</i>	(co-O Kroemer)	5th	2021 –

## Professional Masters Students

MRSD	<b>Jashkumar Diyora</b>	he/him	<i>Modular Teleoperation with Autonomy</i>		RI	2021 –
MRSD	<b>Shruti Gangopadhyay</b>	she/her	<i>Modular Teleoperation with Autonomy</i>		RI	2021 –
MRSD	<b>Jigar Patel</b>	he/him	<i>Modular Teleoperation with Autonomy</i>		RI	2021 –
MRSD	<b>Prakhar Pradeep</b>	he/him	<i>Modular Teleoperation with Autonomy</i>		RI	2021 –
MRSD	<b>Shivani Sivakumar</b>	she/her	<i>Modular Teleoperation with Autonomy</i>		RI	2021 –
*	co-Z Erickson					

## Alumni, Interns, and Undergraduates

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. **FILM: Following Instructions in Language with Modular Methods** 2021  
So Yeon Min, Devendra Singh Chaplot, Pradeep Ravikumar, [Yonatan Bisk](#), Ruslan Salakhutdinov,  
*The Tenth International Conference on Learning Representations*
4. **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*
5. **Language Grounding with 3D Objects** 2021  
Jesse Thomason, Mohit Shridhar, [Yonatan Bisk](#), Chris Paxton, Luke Zettlemoyer,  
*Conference on Robot Learning*
6. **TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment** 2021  
Jianwei Yang, [Yonatan Bisk](#), Jianfeng Gao,  
*International Conference on Computer Vision*
7. **Few-shot Language Coordination by Modeling Theory of Mind** 2021  
Hao Zhu, Graham Neubig, [Yonatan Bisk](#),  
*The Thirty-eighth International Conference on Machine Learning*
8. **Grounding ‘Grounding’ in NLP** 2021  
Khyathi Raghavi Chandu, [Yonatan Bisk](#), Alan W Black,  
*Findings of The 2021 Conference of the Association for Computational Linguistics*
9. **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)
10. **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*
11. **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*
12. **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)
13. **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)
14. **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*
15. **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)*
16. **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)

17. **Robust Navigation with Language Pretraining and Stochastic Sampling** 2019  
 Xiujun 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*
18. **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*
19. **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*
20. **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*
21. **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*
22. **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)
23. **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, Sid-  
 dhartha Srinivasa,  
*The IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, (Oral)
24. **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)*
25. **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*
26. **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)
27. **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)
28. **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)
29. **Synthetic and Natural Noise Both Break Neural Machine Translation** 2018  
 Yonatan Belinkov, Yonatan Bisk,  
*Proceedings of the 6th International Conference on Learning Representations*, (Oral)
30. **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)*
31. **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)
32. **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)
33. **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)

34. **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*
35. **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)
36. **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)*
37. **Simple Robust Grammar Induction with Combinatory Categorical Grammar** 2012  
Yonatan Bisk, Julia Hockenmaier,  
*Proceedings of the Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)*
38. **Document-Topic Hierarchies from Document Graphs** 2012  
Tim Weninger, Yonatan Bisk, Jiawei Han,  
*Proceedings of the 21st ACM international conference on Information and knowledge management (CIKM 2012)*
39. **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

40. **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*
41. **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*
42. **Inducing Grammars with and for Neural Machine Translation** 2018  
Ke Tran, Yonatan Bisk,  
*Proceedings of the 2nd Workshop on Neural Machine Translation*
43. **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*
44. **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*
45. **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)
46. **Induction of Linguistic Structure with Combinatory Categorical Grammars** 2012  
Yonatan Bisk, Julia Hockenmaier,  
*NAACL HLT Workshop on Induction of Linguistic Structure*

## Tech Reports

47. **KAT: A Knowledge Augmented Transformer for Vision-and-Language** 2021  
Liangke Gui, Borui Wang, Qiuyuan Huang, Alex Hauptmann, Yonatan Bisk, Jianfeng Gao,  
*ArXiv*
48. **Learning When and What to Ask: a Hierarchical Reinforcement Learning Framework** 2021  
Khanh Nguyen, Yonatan Bisk, Hal Daume III,  
*ArXiv*
49. **WebQA: Multihop and Multimodal QA** 2021  
Yingshan Chang, Mridu Narang, Hisami Suzuki, Guihong Cao, Jianfeng Gao, Yonatan Bisk,  
*ArXiv*

50. **Worst of Both Worlds: Biases Compound in Pre-trained Vision-and-Language Models** 2021  
Tejas Srinivasan, [Yonatan Bisk](#),  
*ArXiv*
51. **Multi-View Learning for Vision-and-Language Navigation** 2020  
Qiaolin Xia, XiuJun Li, Chunyuan Li, [Yonatan Bisk](#), Zhifang Sui, Jianfeng Gao, Yejin Choi, Noah A. Smith,  
*ArXiv*
52. **FIND: Identifying Functionally and Structurally Important Features in Protein Sequences with Deep Neural Networks** 2019  
Ranjani Murali, James Hemp, Victoria Orphan, [Yonatan Bisk](#),  
*bioRxiv*
53. **CHALET: Cornell House Agent Learning Environment** 2018  
Claudia Yan, Dipendra Misra, Andrew Bennett, Aaron Walsman, [Yonatan Bisk](#), Yoav Artzi,  
*ArXiv Preprint 1801.07357*
54. **Unsupervised Grammar Induction with Combinatory Categorical Grammars** 2015  
[Yonatan Bisk](#),  
*University of Illinois at Urbana-Champaign*

## Thesis Committees

- **PhD Kaixin Ma** Eric Nyberg, CMU
- **PhD Dylan Ebert** Ellie Pavlick, Brown
- **PhD Shikib Mehri** Maxine Eskenazi, CMU
- **PhD Volkan Cirik** Louis-Philippe Morency and Taylor Berg-Kirkpatrick, CMU
- **PhD Shruti Palaskar** Alan Black and Florian Metze, CMU
- **PhD Dheeraj Rajagopal** Ed Hovy, CMU
- **PhD Evangelia Spiliopoulou** Ed Hovy, 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 **11-777 MultiModal Machine Learning** # Students: , 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 Weneringer, 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** *Learning Dynamic Multimodal Inference for On-Device VQA*  
Co-PI Emma Strubell, Sept 2020 – May 2021, \$75K
- 2020 **Google exploreCSR** *Broad & Inclusive Language Technology (BILT) @ CMU LTI*  
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*
  - **Transactions on Machine Learning Research** *Action Editor*
  - **ACL Rolling Review**
- 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, <i>standing</i>
	<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, 2017, 2020
	<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>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 **Following Instructions and Asking Questions** *UCSB NLP*
- 2021 **Following Instructions and Asking Questions** *UIUC NLP*
- WebQA: Multihop and Multimodal QA** *PNNL Mega-AI Seminar*
- Following Instructions and Asking Questions** *Human Interaction for Robotic Navigation Workshop @ ICCV*
- 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** *PNNL*
- Guest Lecture: Embodiment for NLP** *UPenn*
- 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*