Yonatan Bisk

Assistant Professor of Computer Science

GHC 6703
✉ *ybisk@cs.cmu.edu*
he/him

Positions

2020 – **Assistant Professor** *Carnegie Mellon University*
Language Technologies Institute
Robotics Institute (courtesy)

2021 – **Consulting Professor** *Microsoft Research*

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 Categorial 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	*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 Control*		RI	2021 –
PhD	**Tiffany Min**	she/her	*Embodiment*	*(co-R Salakhutdinov)*	MLD	2021 –
PhD	**Yingshan Chang**	she/her	*Multimodal Reasoning*		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

MSAII	**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	*Multimodal Reasoning*		LTI	2020 – 2022
MLT	**Josh Zhanson**	he/him	*Embodied Visual Reps*		LTI	2020 – 2022
MS	**Xiaoyu (Erin) Zhang**	she/her	*Collaborative Robots*	*(co-O Kroemer)*	5th	2021 – 2022
Ugrad	**Feiyu (Gavin) Zhu**		*Video Summarization*	*(co-C Paxton)*		2021
Intern	**Melanie Sclar**		*Symmetric Theory-of-Mind*	*(co-G Neubig)*		2021
Intern	**Blessing Bassey**		*TextVQA*			2021

Journal Publications

1. **The Return of Lexical Dependencies: Neural Lexicalized PCFGs** 2020
   Hao Zhu, <u>Yonatan Bisk</u>, Graham Neubig,
   Transactions of the Association for Computational Linguistics

2. **An HDP Model for Inducing Combinatory Categorial Grammars** 2013
   <u>Yonatan Bisk</u>, Julia Hockenmaier,
   Transactions of the Association for Computational Linguistics

Conference Publications

3. **Why You Shouldn't Copy the Teacher: Investigating Data and Models in Embodied Dialogue** 2022
   So Yeon Min, Hao Zhu, Ruslan Salakhutdinov, <u>Yonatan Bisk</u>,
   The 2022 Conference on Empirical Methods in Natural Language Processing

4. **EvEntS ReaLM: Event Reasoning of Entity States via Language Models** 2022
   Evangelia Spiliopoulou, Artidoro Pagnoni, <u>Yonatan Bisk</u>, Eduard Hovy,
   The 2022 Conference on Empirical Methods in Natural Language Processing

5. **On Advances in Text Generation from Images Beyond Captioning: A Case Study in Self-Rationalization** 2022
   Shruti Palaskar, Akshita Bhagia, <u>Yonatan Bisk</u>, Florian Metze, Alan W Black, Ana Marasovic,
   Findings of the 2022 Conference on Empirical Methods in Natural Language Processing

6. **Transformers are Adaptable Task Planners** 2022
   Vidhi Jain, Yixin Lin, Eric Undersander, <u>Yonatan Bisk</u>, Akshara Rai,
   Conference on Robot Learning

7. **Symmetric Machine Theory of Mind** 2022
   Melanie Sclar, Graham Neubig, <u>Yonatan Bisk</u>,
   39th International Conference on Machine Learning

8. **A Framework for Learning to Request Rich and Contextually Useful Information from Humans** 2022
   Khanh Nguyen, <u>Yonatan Bisk</u>, Hal Daume III,
   39th International Conference on Machine Learning,

9. **Simulated Language Learning from Communicative Goals and Linguistic Input** 2022
   Hao Zhu, <u>Yonatan Bisk</u>, Graham Neubig,
   Proceedings of the Annual Meeting of the Cognitive Science Society, (Oral)

10. **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, <u>Yonatan Bisk</u>,
    Proceedings of Machine Learning Research (PMLR): NeurIPS 2021 Competition Track

11. **KAT: A Knowledge Augmented Transformer for Vision-and-Language** 2022
    Liangke Gui, Borui Wang, Qiuyuan Huang, Alex Hauptmann, <u>Yonatan Bisk</u>, Jianfeng Gao,
    Annual Conference of the North American Chapter of the Association for Computational Linguistics, (Oral)

12. **FILM: Following Instructions in Language with Modular Methods** 2022
So Yeon Min, Devendra Singh Chaplot, Pradeep Ravikumar, <u>Yonatan Bisk</u>, Ruslan Salakhutdinov,
The Tenth International Conference on Learning Representations

13. **WebQA: Multihop and Multimodal QA** 2022
Yingshan Chang, Mridu Narang, Hisami Suzuki, Guihong Cao, Jianfeng Gao, <u>Yonatan Bisk</u>,
Conference on Computer Vision and Pattern Recognition, (Oral)

14. **Dependency Induction Through the Lens of Visual Perception** 2021
Ruisi Su, Shruti Rijhwani, Hao Zhu, Junxian He, Xinyu Wang, <u>Yonatan Bisk</u>, Graham Neubig,
The SIGNLL Conference on Computational Natural Language Learning

15. **Language Grounding with 3D Objects** 2021
Jesse Thomason, Mohit Shridhar, <u>Yonatan Bisk</u>, Chris Paxton, Luke Zettlemoyer,
Conference on Robot Learning

16. **TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment** 2021
Jianwei Yang, <u>Yonatan Bisk</u>, Jianfeng Gao,
International Conference on Computer Vision

17. **Few-shot Language Coordination by Modeling Theory of Mind** 2021
Hao Zhu, Graham Neubig, <u>Yonatan Bisk</u>,
The Thirty-eighth International Conference on Machine Learning

18. **Grounding 'Grounding' in NLP** 2021
Khyathi Raghavi Chandu, <u>Yonatan Bisk</u>, Alan W Black,
Findings of The 2021 Conference of the Association for Computational Linguistics

19. **An Empirical Study on the Generalization Power of Neural Representations Learned via Visual Guessing Games** 2021
Alessandro Suglia, <u>Yonatan Bisk</u>, Ioannis Konstas, Antonio Vergari, Emanuele Bastianelli, Andrea Vanzo, Oliver Lemon,
The 2021 Conference of the European Chapter of the Association for Computational Linguistics, (Oral)

20. **Knowledge-driven Data Construction for Zero-shot Evaluation in Commonsense Question Answering** 2021
Kaixin Ma, Filip Ilievski, Jonathan Francis, <u>Yonatan Bisk</u>, Eric Nyberg, Alessandro Oltramari,
35th AAAI Conference on Artificial Intelligence

21. **ALFWorld: Aligning Text and Embodied Environments for Interactive Learning** 2021
Mohit Shridhar, Xingdi Yuan, Marc-Alexandre Côté, <u>Yonatan Bisk</u>, Adam Trischler, Matthew Hausknecht,
Proceedings of the International Conference on Learning Representations

22. **Imagining Grounded Conceptual Representations from Perceptual Information in Situated Guessing Games** 2020
Alessandro Suglia, Antonio Vergari, Ioannis Konstas, <u>Yonatan Bisk</u>, Emanuele Bastianelli, Andrea Vanzo, Oliver Lemon,
The 28th International Conference on Computational Linguistics, (Oral)

23. **Experience Grounds Language** 2020
<u>Yonatan Bisk</u>, 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)

24. **RMM: A Recursive Mental Model for Dialog Navigation** 2020
Homero Roman Roman, <u>Yonatan Bisk</u>, Jesse Thomason, Asli Celikyilmaz, Jianfeng Gao,
Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing: Findings

25. **ALFRED: A Benchmark for Interpreting Grounded Instructions for Everyday Tasks** 2020
Mohit Shridhar, Jesse Thomason, Daniel Gordon, <u>Yonatan Bisk</u>, Winson Han, Roozbeh Mottaghi, Luke Zettlemoyer, Dieter Fox,
The IEEE Conference on Computer Vision and Pattern Recognition (CVPR)

26. **PIQA: Reasoning about Physical Commonsense in Natural Language** 2020
<u>Yonatan Bisk</u>, Rowan Zellers, Ronan Le Bras, Jianfeng Gao, Yejin Choi,
Thirty-Fourth AAAI Conference on Artificial Intelligence, (Oral)

27. **Robust Navigation with Language Pretraining and Stochastic Sampling** 2019
Xiujun Li, Chunyuan Li, Qiaolin Xia, <u>Yonatan Bisk</u>, 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

28. **Defending Against Neural Fake News** 2019
Rowan Zellers, Ari Holtzman, Hannah Rashkin, <u>Yonatan Bisk</u>, Ali Farhadi, Franziska Roesner, Yejin Choi,
Thirty-third Conference on Neural Information Processing Systems

29. **Improving Robot Success Detection using Static Object Data** 2019
Rosario Scalise, Jesse Thomason, <u>Yonatan Bisk</u>, Siddhartha Srinivasa,
Proceedings of the 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems

30. **Early Fusion for Goal Directed Robotic Vision** 2019
Aaron Walsman, <u>Yonatan Bisk</u>, Saadia Gabriel, Dipendra Misra, Yoav Artzi, Yejin Choi, Dieter Fox,
Proceedings of the 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems

31. **HellaSwag: Can a Machine Really Finish Your Sentence?** 2019
Rowan Zellers, Ari Holtzman, <u>Yonatan Bisk</u>, Ali Farhadi, Yejin Choi,
Proceedings of the Association for Computational Linguistics

32. **From Recognition to Cognition: Visual Commonsense Reasoning** 2019
Rowan Zellers, <u>Yonatan Bisk</u>, Ali Farhadi, Yejin Choi,
The IEEE Conference on Computer Vision and Pattern Recognition (CVPR), (Oral)

33. **Tactical Rewind: Self-Correction via Backtracking in Vision-and-Language Navigation** 2019
Liyiming Ke, Xiujun Li, <u>Yonatan Bisk</u>, Ari Holtzman, Zhe Gan, Jingjing Liu, Jianfeng Gao, Yejin Choi,
Siddhartha Srinivasa,
The IEEE Conference on Computer Vision and Pattern Recognition (CVPR), (Oral)

34. **Prospection: Interpretable Plans From Language By Predicting the Future** 2019
Chris Paxton, <u>Yonatan Bisk</u>, Jesse Thomason, Arunkumar Byravan, Dieter Fox,
Proceedings of the International Conference on Robotics and Automation (ICRA)

35. **Shifting the Baseline: Single Modality Performance on Visual Navigation & QA** 2019
Jesse Thomason, Daniel Gordon, <u>Yonatan Bisk</u>,
*Proceedings of the Annual Conference of the North American Chapter of the Association for Computational
Linguistics*

36. **Benchmarking Hierarchical Script Knowledge** 2019
<u>Yonatan Bisk</u>, Jan Buys, Karl Pichotta, Yejin Choi,
*Proceedings of the Annual Conference of the North American Chapter of the Association for Computational
Linguistics*, (Oral)

37. **Character-based Surprisal as a Model of Reading Difficulty in the Presence of Errors** 2019
Michael Hahn, Frank Keller, <u>Yonatan Bisk</u>, Yonatan Belinkov,
The 41st Annual Meeting of the Cognitive Science Society, (Oral)

38. **SWAG: A Large-Scale Adversarial Dataset for Grounded Commonsense Inference** 2018
Rowan Zellers, <u>Yonatan Bisk</u>, Roy Schwartz, Yejin Choi,
Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP),
(Oral)

39. **Synthetic and Natural Noise Both Break Neural Machine Translation** 2018
Yonatan Belinkov, <u>Yonatan Bisk</u>,
Proceedings of the 6th International Conference on Learning Representations, (Oral)

40. **Learning Interpretable Spatial Operations in a Rich 3D Blocks World** 2018
<u>Yonatan Bisk</u>, Kevin Shih, Yejin Choi, Daniel Marcu,
Proceedings of the Thirty-Second Conference on Artificial Intelligence (AAAI-18)

41. **Natural Language Inference from Multiple Premises** 2017
Alice Lai, <u>Yonatan Bisk</u>, Julia Hockenmaier,
Proceedings of the Eighth International Joint Conference on Natural Language Processing, (Oral)

42. **Natural Language Communication with Robots** 2016
<u>Yonatan Bisk</u>, Deniz Yuret, Daniel Marcu,
Proceedings of the 15th Annual Conference of the North American Chapter of the Association for Computational Linguistics, (Oral)

43. **Supertagging with LSTMs** 2016
Ashish Vaswani, <u>Yonatan Bisk</u>, Kenji Sagae, Ryan Musa,
Proceedings of the 15th Annual Conference of the North American Chapter of the Association for Computational Linguistics (Short Papers), (Oral)

44. **Evaluating Induced CCG Parsers on Grounded Semantic Parsing** 2016
<u>Yonatan Bisk</u>, Siva Reddy, John Blitzer, Julia Hockenmaier, Mark Steedman,
Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing

45. **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)

46. **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)

47. **Simple Robust Grammar Induction with Combinatory Categorial Grammar** 2012
Yonatan Bisk, Julia Hockenmaier,
Proceedings of the Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)

48. **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)

49. **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

50. **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

51. **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

52. **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

53. **Inducing Grammars with and for Neural Machine Translation** 2018
Ke Tran, Yonatan Bisk,
Proceedings of the 2nd Workshop on Neural Machine Translation

54. **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

55. **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

56. **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)

57. **Induction of Linguistic Structure with Combinatory Categorial Grammars** 2012
Yonatan Bisk, Julia Hockenmaier,
NAACL HLT Workshop on Induction of Linguistic Structure

Tech Reports

58. **Training Vision-Language Transformers from Captions Alone** 2022
Liangke Gui, Qiuyuan Huang, Alex Hauptmann, Yonatan Bisk, Jianfeng Gao,
ArXiv

59. **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

60. **FIND: Identifying Functionally and Structurally Important Features in Protein Sequences with Deep Neural Networks** 2019
Ranjani Murali, James Hemp, Victoria Orphan, Yonatan Bisk,
bioRxiv

61. **CHALET: Cornell House Agent Learning Environment** 2018
Claudia Yan, Dipendra Misra, Andrew Bennett, Aaron Walsman, <u>Yonatan Bisk</u>, Yoav Artzi,
ArXiv Preprint 1801.07357

62. **Unsupervised Grammar Induction with Combinatory Categorial Grammars** 2015
<u>Yonatan Bisk</u>,
University of Illinois at Urbana-Champaign

Thesis Committees

–	**PhD**	*Nicholas Botzer*	Tim Weninger, Notre Dame
–	**PhD**	*Kaixin Ma*	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	**11-777 MultiModal Machine Learning**	# Students: 94, SP
2022	**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 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*

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: 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	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
Penn State University
Universitat Hamburg Crossmodal Learning (CML) summer school
University of Stuttgart Institute of Natural Language Processing

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*