

Yonatan Bisk

Assistant Professor of Computer Science

GHC 6703

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he/him

Positions

| | | |
|--------|--|-----------------|
| 2020 – | Assistant Professor <i>Carnegie Mellon University</i> Language Technologies Institute Robotics Institute (courtesy) | |
| 2022 – | Visiting Professor <i>Meta Fundamental AI Research (FAIR)</i> | w/ Dhruv Batra |
| 2021 – | Consulting Professor <i>Microsoft Research</i> | |
| 2019 – | Visiting Researcher <i>Microsoft Research</i> | 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

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

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|-----|-------------------------|---------|-----------------------------|----------------------|-----|--------|
| 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 – |
| PhD | Abitha Thankaraj | she/her | <i>Language to Control</i> | (co-A Kumar) | RI | 2024 – |

Alumni, Interns, and Undergraduates

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|--------|--|---------|----------------------------|------------------|--------|-------------|
| Ugrad | Claire Jin | she/her | <i>Embodied Dialogue</i> | | | 2024 |
| Ugrad | Maria Yampolsky | she/her | <i>Audio</i> | | | 2024 |
| Intern | Minyoung Hwang | she/her | <i>Preference Learning</i> | she/her | | 2024 |
| MS | Quanting Xie | he/him | <i>LLMs for Robotics</i> | he/him | MechE | 2023 |
| MSAII | Seed emergence | | | | | 2024 |
| | Harini Subramanyan | | Juanyun Mai | Ameya Morbale | | |
| | Karthik Natarajan | | Noel D Souza | Bohao Zhang | | |
| MRSD | Assistive Robotics for Eldercare (*co-Z Erickson) | | | | | 2023 |
| | Abhinav Gupta | he/him | | Atharva Pusalkar | he/him | |
| | Praveen Venkatesh | he/him | | Shaolin Kataria | he/him | |
| | Shivam Tripathy | he/him | | | | |
| MLT | Jimin Sun | she/her | <i>Embodied Dialogue</i> | | LTI | 2022 – 2023 |

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|--------|--|---------|---------------------------------|-----------------------|---------|-------------|
| Ugrad | Xiang Fan | | <i>Transformer Efficiency</i> | (co-E Strubell) | | 2022 |
| Intern | Andy Liu | | <i>Theory-of-Mind</i> | (co-G Neubig) | | 2022 |
| Intern | Deogratias Amani | he/him | <i>Grounding</i> | | | 2022 |
| 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 | |
| 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 **Training Vision-Language Transformers from Captions** 2023
Liangke Gui, Yingshan Chang, Qiuyuan Huang, Subhojit Som, Alexander Hauptmann, Jianfeng Gao, Yonatan Bisk
Transactions on Machine Learning Research
- 2 **The Return of Lexical Dependencies: Neural Lexicalized PCFGs** 2020
Hao Zhu, Yonatan Bisk, Graham Neubig
Transactions of the Association for Computational Linguistics
- 3 **An HDP Model for Inducing Combinatory Categorical Grammars** 2013
Yonatan Bisk, Julia Hockenmaier
Transactions of the Association for Computational Linguistics

Conference Publications

- 4 **OpenEQA: Embodied Question Answering in the Era of Foundation Models** 2024
Arjun Majumdar, Anurag Ajay, Xiaohan Zhang, Pranav Putta, Sriram Yenamandra, Mikael Henaff, Sneha Silwal, Paul Mccvay, Oleksandr Maksymets, Sergio Arnaud, Karmesh Yadav, Qiyang Li, Ben Newman, Mohit Sharma, Vincent Berges, Shiqi Zhang, Pulkit Agrawal, Yonatan Bisk, Dhruv Batra, Mrinal Kalakrishnan, Franziska Meier, Chris Paxton, Sasha Sax, Aravind Rajeswaran
Conference on Computer Vision and Pattern Recognition
- 5 **SOTOPIA: Interactive Evaluation for Social Intelligence in Language Agents** 2024
Xuhui Zhou, Hao Zhu, Leena Mathur, Ruohong Zhang, Haofei Yu, Zhengyang Qi, Louis-Philippe Morency, Yonatan Bisk, Daniel Fried, Graham Neubig, Maarten Sap
The Twelfth International Conference on Learning RepresentationsSpotlight

- 6 **MOSAIC: Learning Unified Multi-Sensory Object Property Representations for Robot Perception** 2024
Gyan Tatiya, Jonathan Francis, Ho-Hsiang Wu, [Yonatan Bisk](#), Jivko Sinapov
IEEE International Conference on Robotics and Automation
- 7 **WebArena: A Realistic Web Environment for Building Autonomous Agents** 2024
Shuyan Zhou, Frank F. Xu, Hao Zhu, Xuhui Zhou, Robert Lo, Abishek Sridhar, Xianyi Cheng, Tianyue Ou, [Yonatan Bisk](#), Daniel Fried, Uri Alon, Graham Neubig
The Twelfth International Conference on Learning Representations
- 8 **Spatial-Language Attention Policies for Efficient Robot Learning** 2023
Priyam Parashar, Vidhi Jain, Xiaohan Zhang, Jay Vakil, Sam Powers, [Yonatan Bisk](#), Chris Paxton
Conference on Robot Learning
- 9 **SPAE: Semantic Pyramid AutoEncoder for Multimodal Generation with Frozen LLMs** 2023
Lijun Yu, Yong Cheng, Zhiruo Wang, Vivek Kumar, Wolfgang Macherey, Yanping Huang, David A. Ross, Irfan Essa, [Yonatan Bisk](#), Ming-Hsuan Yang, Kevin Murphy, Alexander Hauptmann, Lu Jiang
Thirty-seventh Conference on Neural Information Processing Systems
- 10 **HomeRobot: Open-Vocabulary Mobile Manipulation** 2023
Sriram Yenamandra, Arun Ramachandran, Karmesh Yadav, Austin Wang, Mukul Khanna, Theophile Gervet, Tsung-Yen Yang, Vidhi Jain, Alexander William Clegg, John Turner, Zsolt Kira, Manolis Savva, Angel Chang, Devendra Singh Chaplot, Dhruv Batra, Roozbeh Mottaghi, [Yonatan Bisk](#), Chris Paxton
Conference on Robot Learning
- 11 **SPRING: GPT-4 Out-performs RL Algorithms by Studying Papers and Reasoning** 2023
Yue Wu, Shrimai Prabhumoye, So Yeon Min, [Yonatan Bisk](#), Ruslan Salakhutdinov, Amos Azaria, Tom Mitchell, Yuanzhi Li
Thirty-seventh Conference on Neural Information Processing Systems
- 12 **HomeRobot Open Vocab Mobile Manipulation Challenge** 2023
Sriram Yenamandra, Arun Ramachandran, Mukul Khanna, Karmesh Yadav, Devendra Singh Chaplot, Gunjan Chhablani, Alexander Clegg, Theophile Gervet, Vidhi Jain, Ruslan Partsey, Ram Ramrakhya, Andrew Szot, Tsung-Yen Yang, Aaron Edsinger, Charlie Kemp, Binit Shah, Zsolt Kira, Dhruv Batra, Roozbeh Mottaghi, [Yonatan Bisk](#), Chris Paxton
Thirty-seventh Conference on Neural Information Processing Systems: Competition Track
- 13 **EXCALIBUR: Encouraging and Evaluating Embodied Exploration** 2023
Hao Zhu, Raghav Kapoor, So Yeon Min, Winson Han, Jiatai Li, Kaiwen Geng, Graham Neubig, [Yonatan Bisk](#), Aniruddha Kembhavi, Luca Weihs
Conference on Computer Vision and Pattern Recognition
- 14 **The Framework Tax: Disparities Between Inference Efficiency in Research and Deployment** 2023
Jared Fernandez, Jacob Kahn, Clara Na, [Yonatan Bisk](#), Emma Strubell
The 2023 Conference on Empirical Methods in Natural Language Processing Oral
- 15 **Computational Language Acquisition with Theory of Mind** 2023
Andy Liu, Hao Zhu, Emmy Liu, [Yonatan Bisk](#), Graham Neubig
The Eleventh International Conference on Learning Representations
- 16 **Self-Supervised Object Goal Navigation with In-Situ Finetuning** 2023
So Yeon Min, Yao-Hung Hubert Tsai, Wei Ding, Ali Farhadi, Ruslan Salakhutdinov, [Yonatan Bisk](#), Jian Zhang
IEEE/RSJ International Conference on Intelligent Robots and Systems
- 17 **Don't Copy the Teacher: Data and Model Challenges in Embodied Dialogue** 2022
So Yeon Min, Hao Zhu, Ruslan Salakhutdinov, [Yonatan Bisk](#)
Conference on Empirical Methods in Natural Language Processing
- 18 **EvEntS RealLM: Event Reasoning of Entity States via Language Models** 2022
Evangelia Spiliopoulou, Artidoro Pagnoni, [Yonatan Bisk](#), Eduard Hovy
Conference on Empirical Methods in Natural Language Processing

- 19 **On Advances in Text Generation from Images Beyond Captioning: A Case Study in Self-Rationalization** 2022
Shruti Palaskar, Akshita Bhagia, [Yonatan Bisk](#), Florian Metze, Alan W Black, Ana Marasovic
Findings of the Conference on Empirical Methods in Natural Language Processing
- 20 **Transformers are Adaptable Task Planners** 2022
Vidhi Jain, Yixin Lin, Eric Undersander, [Yonatan Bisk](#), Akshara Rai
Conference on Robot Learning
- 21 **Symmetric Machine Theory of Mind** 2022
Melanie Sclar, Graham Neubig, [Yonatan Bisk](#)
39th International Conference on Machine Learning
- 22 **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,
- 23 **Simulated Language Learning from Communicative Goals and Linguistic Input** 2022
Hao Zhu, [Yonatan Bisk](#), Graham Neubig
*Annual Meeting of the Cognitive Science Society*Oral
- 24 **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
- 25 **KAT: A Knowledge Augmented Transformer for Vision-and-Language** 2022
Liangke Gui, Borui Wang, Qiuyuan Huang, Alexander Hauptmann, [Yonatan Bisk](#), Jianfeng Gao
*Annual Conference of the North American Chapter of the Association for Computational Linguistics*Oral
- 26 **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
- 27 **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
- 28 **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
- 29 **Language Grounding with 3D Objects** 2021
Jesse Thomason, Mohit Shridhar, [Yonatan Bisk](#), Chris Paxton, Luke Zettlemoyer
Conference on Robot Learning
- 30 **TACo: Token-aware Cascade Contrastive Learning for Video-Text Alignment** 2021
Jianwei Yang, [Yonatan Bisk](#), Jianfeng Gao
International Conference on Computer Vision
- 31 **Few-shot Language Coordination by Modeling Theory of Mind** 2021
Hao Zhu, Graham Neubig, [Yonatan Bisk](#)
The Thirty-eighth International Conference on Machine Learning
- 32 **Grounding ‘Grounding’ in NLP** 2021
Khyathi Raghavi Chandu, [Yonatan Bisk](#), Alan W Black
Findings of The 2021 Conference of the Association for Computational Linguistics
- 33 **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

- 34 **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
- 35 **ALFWorld: Aligning Text and Embodied Environments for Interactive Learning** 2021
Mohit Shridhar, Xingdi Yuan, Marc-Alexandre Côté, [Yonatan Bisk](#), Adam Trischler, Matthew Hausknecht
International Conference on Learning Representations
- 36 **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
- 37 **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
*Conference on Empirical Methods in Natural Language Processing*Oral
- 38 **RMM: A Recursive Mental Model for Dialog Navigation** 2020
Homero Roman Roman, [Yonatan Bisk](#), Jesse Thomason, Asli Celikyilmaz, Jianfeng Gao
Conference on Empirical Methods in Natural Language Processing: Findings
- 39 **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)
- 40 **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
- 41 **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
- 42 **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
- 43 **Improving Robot Success Detection using Static Object Data** 2019
Rosario Scalise, Jesse Thomason, [Yonatan Bisk](#), Siddhartha Srinivasa
IEEE/RSJ International Conference on Intelligent Robots and Systems
- 44 **Early Fusion for Goal Directed Robotic Vision** 2019
Aaron Walsman, [Yonatan Bisk](#), Saadia Gabriel, Dipendra Misra, Yoav Artzi, Yejin Choi, Dieter Fox
2019 IEEE/RSJ International Conference on Intelligent Robots and Systems – RoboCup Best Paper Award finalist
- 45 **HellaSwag: Can a Machine Really Finish Your Sentence?** 2019
Rowan Zellers, Ari Holtzman, [Yonatan Bisk](#), Ali Farhadi, Yejin Choi
Association for Computational Linguistics
- 46 **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*Oral
- 47 **Tactical Rewind: Self-Correction via Backtracking in Vision-and-Language Navigation** 2019
Liyiming Ke, Xiujuan Li, [Yonatan Bisk](#), Ari Holtzman, Zhe Gan, Jingjing Liu, Jianfeng Gao, Yejin Choi, Siddhartha Srinivasa
*The IEEE Conference on Computer Vision and Pattern Recognition*Oral

- 48 **Prospection: Interpretable Plans From Language By Predicting the Future** 2019
Chris Paxton, [Yonatan Bisk](#), Jesse Thomason, Arunkumar Byravan, Dieter Fox
International Conference on Robotics and Automation (ICRA)
- 49 **Shifting the Baseline: Single Modality Performance on Visual Navigation & QA** 2019
Jesse Thomason, Daniel Gordon, [Yonatan Bisk](#)
Annual Conference of the North American Chapter of the Association for Computational Linguistics
- 50 **Benchmarking Hierarchical Script Knowledge** 2019
[Yonatan Bisk](#), Jan Buys, Karl Pichotta, Yejin Choi
*Annual Conference of the North American Chapter of the Association for Computational Linguistics*Oral
- 51 **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
- 52 **SWAG: A Large-Scale Adversarial Dataset for Grounded Commonsense Inference** 2018
Rowan Zellers, [Yonatan Bisk](#), Roy Schwartz, Yejin Choi
*Conference on Empirical Methods in Natural Language Processing*Oral
- 53 **Synthetic and Natural Noise Both Break Neural Machine Translation** 2018
Yonatan Belinkov, [Yonatan Bisk](#)
*6th International Conference on Learning Representations*Oral
- 54 **Learning Interpretable Spatial Operations in a Rich 3D Blocks World** 2018
[Yonatan Bisk](#), Kevin Shih, Yejin Choi, Daniel Marcu
Thirty-Second Conference on Artificial Intelligence (AAAI-18)
- 55 **Natural Language Inference from Multiple Premises** 2017
Alice Lai, [Yonatan Bisk](#), Julia Hockenmaier
*Eighth International Joint Conference on Natural Language Processing*Oral
- 56 **Natural Language Communication with Robots** 2016
[Yonatan Bisk](#), Deniz Yuret, Daniel Marcu
*15th Annual Conference of the North American Chapter of the Association for Computational Linguistics*Oral
- 57 **Supertagging with LSTMs** 2016
Ashish Vaswani, [Yonatan Bisk](#), Kenji Sagae, Ryan Musa
*15th Annual Conference of the North American Chapter of the Association for Computational Linguistics (Short Papers)*Oral
- 58 **Evaluating Induced CCG Parsers on Grounded Semantic Parsing** 2016
[Yonatan Bisk](#), Siva Reddy, John Blitzer, Julia Hockenmaier, Mark Steedman
2016 Conference on Empirical Methods in Natural Language Processing
- 59 **Probing the Linguistic Strengths and Limitations of Unsupervised Grammar Induction** 2015
[Yonatan Bisk](#), Julia Hockenmaier
*53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing (Volume 1: Long Papers)*Oral
- 60 **Labeled Grammar Induction with Minimal Supervision** 2015
[Yonatan Bisk](#), Christos Christodoulopoulos, Julia Hockenmaier
53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing (Volume 2: Short Papers)
- 61 **Simple Robust Grammar Induction with Combinatory Categorical Grammar** 2012
[Yonatan Bisk](#), Julia Hockenmaier
Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)
- 62 **Document-Topic Hierarchies from Document Graphs** 2012
Tim Weninger, [Yonatan Bisk](#), Jiawei Han
21st ACM international conference on Information and knowledge management (CIKM 2012)
- 63 **Normal-form parsing for CCGs with generalized composition and type-raising** 2010
Julia Hockenmaier, [Yonatan Bisk](#)
23rd International Conference on Computational Linguistics (Coling 2010)

Workshop Publications

- 64 **MAEA: Multimodal Attribution for Embodied AI** 2022
Vidhi Jain, Jayant Sravan Tamarapalli, Sahiti Yerramilli, [Yonatan Bisk](#)
Progress and Challenges in Building Trustworthy Embodied AI at NeurIPS 2022
- 65 **Tackling AlfWorld with Action Attention and Common Sense from Language Models** 2022
Yue Wu, So Yeon Min, [Yonatan Bisk](#), Ruslan Salakhutdinov, Shrimai Prabhumoye
Language and Reinforcement Learning Workshop at NeurIPS 2022
- 66 **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
- 67 **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
- 68 **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
- 69 **Inducing Grammars with and for Neural Machine Translation** 2018
Ke Tran, [Yonatan Bisk](#)
2nd Workshop on Neural Machine Translation Best Paper
- 70 **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
- 71 **Towards a Dataset for Human Computer Communication via Grounded Language Acquisition** 2016
[Yonatan Bisk](#), Daniel Marcu, William Wong
AAAI 2016 Workshop on Symbiotic Cognitive Systems
- 72 **Unsupervised Neural Hidden Markov Models** 2016
Ke Tran, [Yonatan Bisk](#), Ashish Vaswani, Daniel Marcu, Kevin Knight
Workshop on Structured Prediction for NLP Oral
- 73 **Induction of Linguistic Structure with Combinatory Categorical Grammars** 2012
[Yonatan Bisk](#), Julia Hockenmaier
NAACL HLT Workshop on Induction of Linguistic Structure

Preprint Publications

- 74 **Dialogue with Robots: Proposals for Broadening Participation and Research in the SLIVAR Community** 2024
Casey Kennington, Malihe Alikhani, Heather Pon-Barry, Katherine Atwell, [Yonatan Bisk](#), Daniel Fried, Felix Gervits, Zhao Han, Mert Inan, Michael Johnston, Raj Korpan, Diane Litman, Matthew Marge, Cynthia Matuszek, Ross Mead, Shiwali Mohan, Raymond Mooney, Natalie Parde, Jivko Sinapov, Angela Stewart, Matthew Stone, Stefanie Tellex, Tom Williams
ArXiv
- 75 **AgentKit: Flow Engineering with Graphs, not Coding** 2024
Yue Wu, Yewen Fan, So Yeon Min, Shrimai Prabhumoye, Stephen McAleer, [Yonatan Bisk](#), Ruslan Salakhutdinov, Yuanzhi Li, Tom Mitchell
ArXiv
- 76 **Skews in the Phenomenon Space Hinder Generalization in Text-to-Image Generation** 2024
Yingshan Chang, Yasi Zhang, Zhiyuan Fang, Yingnian Wu, [Yonatan Bisk](#), Feng Gao
ArXiv

- 77 **Direct Preference Optimization of Video Large Multimodal Models from Language Model Reward** 2024
Ruohong Zhang, Liangke Gui, Zhiqing Sun, Yihao Feng, Keyang Xu, Yuanhan Zhang, Di Fu, Chunyuan Li, Alexander Hauptmann, Yonatan Bisk, Yiming Yang
ArXiv
- 78 **Vid2Robot: End-to-end Video-conditioned Policy Learning with Cross-Attention Transformers** 2024
Vidhi Jain, Maria Attarian, Nikhil J Joshi, Ayzaan Wahid, Danny Driess, Quan Vuong, Pannag R Sanketi, Pierre Sermanet, Stefan Welker, Christine Chan, Igor Gilitschenski, Yonatan Bisk, Debidatta Dwibedi
ArXiv
- 79 **SOTOPIA- π : Interactive Learning of Socially Intelligent Language Agents** 2024
Ruiyi Wang, Haofei Yu, Wenxin Zhang, Zhengyang Qi, Maarten Sap, Graham Neubig, Yonatan Bisk, Hao Zhu
ArXiv
- 80 **Toward General-Purpose Robots via Foundation Models: A Survey and Meta-Analysis** 2023
Yafei Hu, Quanting Xie, Vidhi Jain, Jonathan Francis, Jay Patrikar, Nikhil Keetha, Seungchan Kim, Yaqi Xie, Tianyi Zhang, Shibo Zhao, Yu Quan Chong, Chen Wang, Katia Sycara, Matthew Johnson-Roberson, Dhruv Batra, Xiaolong Wang, Sebastian Scherer, Zsolt Kira, Fei Xia, Yonatan Bisk
ArXiv

- 81 **Open X-Embodiment: Robotic Learning Datasets and RT-X Models** 2023
 Open X-Embodiment Collaboration, Abby O'Neill, Abdul Rehman, Abhiram Maddukuri, Abhishek Gupta, Abhishek Padalkar, Abraham Lee, Acorn Pooley, Agrim Gupta, Ajay Mandlekar, Ajinkya Jain, Albert Tung, Alex Bewley, Alex Herzog, Alex Irpan, Alexander Khazatsky, Anant Rai, Anchit Gupta, Andrew Wang, Anikait Singh, Animesh Garg, Aniruddha Kembhavi, Annie Xie, Anthony Brohan, Antonin Raffin, Archit Sharma, Arefeh Yavary, Arhan Jain, Ashwin Balakrishna, Ayzaan Wahid, Ben Burgess-Limerick, Beomjoon Kim, Bernhard Schölkopf, Blake Wulfe, Brian Ichter, Cewu Lu, Charles Xu, Charlotte Le, Chelsea Finn, Chen Wang, Chenfeng Xu, Cheng Chi, Chenguang Huang, Christine Chan, Christopher Agia, Chuer Pan, Chuyuan Fu, Coline Devin, Danfei Xu, Daniel Morton, Danny Driess, Daphne Chen, Deepak Pathak, Dhruv Shah, Dieter Buechler, Dinesh Jayaraman, Dmitry Kalashnikov, Dorsa Sadigh, Edward Johns, Ethan Foster, Fangchen Liu, Federico Ceola, Fei Xia, Feiyu Zhao, Freek Stulp, Gaoyue Zhou, Gaurav S. Sukhatme, Gautam Salhotra, Ge Yan, Gilbert Feng, Giulio Schiavi, Glen Berseth, Gregory Kahn, Guanzhi Wang, Hao Su, Hao-Shu Fang, Haochen Shi, Henghui Bao, Heni Ben Amor, Henrik I Christensen, Hiroki Furuta, Homer Walke, Hongjie Fang, Huy Ha, Igor Mordatch, Ilija Radosavovic, Isabel Leal, Jacky Liang, Jad Abou-Chakra, Jaehyung Kim, Jaimyn Drake, Jan Peters, Jan Schneider, Jasmine Hsu, Jeannette Bohg, Jeffrey Bingham, Jeffrey Wu, Jensen Gao, Jiaheng Hu, Jiajun Wu, Jialin Wu, Jiankai Sun, Jianlan Luo, Jiayuan Gu, Jie Tan, Jihoon Oh, Jimmy Wu, Jingpei Lu, Jingyun Yang, Jitendra Malik, João Silvério, Joey Hejna, Jonathan Bozher, Jonathan Tompson, Jonathan Yang, Jordi Salvador, Joseph J. Lim, Junhyek Han, Kaiyuan Wang, Kanishka Rao, Karl Pertsch, Karol Hausman, Keegan Go, Keerthana Gopalakrishnan, Ken Goldberg, Kendra Byrne, Kenneth Oslund, Kento Kawaharazuka, Kevin Black, Kevin Lin, Kevin Zhang, Kiana Ehsani, Kiran Lekkala, Kirsty Ellis, Krishan Rana, Krishnan Srinivasan, Kuan Fang, Kunal Pratap Singh, Kuo-Hao Zeng, Kyle Hatch, Kyle Hsu, Laurent Itti, Lawrence Yunliang Chen, Lerrel Pinto, Li Fei-Fei, Liam Tan, Linxi "Jim" Fan, Lionel Ott, Lisa Lee, Luca Weihs, Magnum Chen, Marion Lepert, Marius Memmel, Masayoshi Tomizuka, Masha Itkina, Mateo Guaman Castro, Max Spero, Maximilian Du, Michael Ahn, Michael C. Yip, Mingtong Zhang, Mingyu Ding, Minh Ho, Mohan Kumar Srirama, Mohit Sharma, Moo Jin Kim, Naoaki Kanazawa, Nicklas Hansen, Nicolas Heess, Nikhil J Joshi, Niko Suenderhauf, Ning Liu, Norman Di Palo, Nur Muhammad Mahi Shafiullah, Oier Mees, Oliver Kroemer, Osbert Bastani, Pannag R Sanketi, Patrick "Tree" Miller, Patrick Yin, Paul Wohlhart, Peng Xu, Peter David Fagan, Peter Mitrano, Pierre Sermanet, Pieter Abbeel, Priya Sundareshan, Qiuyu Chen, Quan Vuong, Rafael Rafailov, Ran Tian, Ria Doshi, Roberto Martín-Martín, Rohan Bajjal, Rosario Scalise, Rose Hendrix, Roy Lin, Runjia Qian, Ruohan Zhang, Russell Mendonca, Rutav Shah, Ryan Hoque, Ryan Julian, Samuel Bustamante, Sean Kirmani, Sergey Levine, Shan Lin, Sherry Moore, Shikhar Bahl, Shivin Dass, Shubham Sonawani, Shuran Song, Sichun Xu, Siddhant Haldar, Siddharth Karamcheti, Simeon Adebola, Simon Guist, Soroush Nasiriany, Stefan Schaal, Stefan Welker, Stephen Tian, Subramanian Ramamoorthy, Sudeep Dasari, Suneel Belkhale, Sungjae Park, Suraj Nair, Suvir Mirchandani, Takayuki Osa, Tanmay Gupta, Tatsuya Harada, Tatsuya Matsushima, Ted Xiao, Thomas Kollar, Tianhe Yu, Tianli Ding, Todor Davchev, Tony Z. Zhao, Travis Armstrong, Trevor Darrell, Trinity Chung, Vidhi Jain, Vincent Vanhoucke, Wei Zhan, Wenxuan Zhou, Wolfram Burgard, Xi Chen, Xiaolong Wang, Xinghao Zhu, Xinyang Geng, Xiyuan Liu, Xu Liangwei, Xuanlin Li, Yao Lu, Yecheng Jason Ma, Yejin Kim, Yevgen Chebotar, Yifan Zhou, Yifeng Zhu, Yilin Wu, Ying Xu, Yixuan Wang, Yonatan Bisk, Yoonyoung Cho, Youngwoon Lee, Yuchen Cui, Yue Cao, Yueh-Hua Wu, Yujin Tang, Yuke Zhu, Yunchu Zhang, Yunfan Jiang, Yunshuang Li, Yunzhu Li, Yusuke Iwasawa, Yutaka Matsuo, Zehan Ma, Zhuo Xu, Zichen Jeff Cui, Zichen Zhang, Zipeng Fu, Zipeng Lin
ArXiv
- 82 **Reasoning about the Unseen for Efficient Outdoor Object Navigation** 2023
 Quanting Xie, Tianyi Zhang, Kedi Xu, Matthew Johnson-Roberson, Yonatan Bisk
ArXiv
- 83 **Plan, Eliminate, and Track – Language Models are Good Teachers for Embodied Agents** 2023
 Yue Wu, So Yeon Min, Yonatan Bisk, Ruslan Salakhutdinov, Amos Azaria, Yuanzhi Li, Tom Mitchell, Shrimai Prabhumoye
ArXiv

- 84 **Retrospectives on the Embodied AI Workshop** 2022
 Matt Deitke, Dhruv Batra, [Yonatan Bisk](#), Tommaso Campari, Angel X. Chang, Devendra Singh Chaplot, Changan Chen, Claudia Pérez D'Arpino, Kiana Ehsani, Ali Farhadi, Li Fei-Fei, Anthony Francis, Chuang Gan, Kristen Grauman, David Hall, Winson Han, Unnat Jain, Aniruddha Kembhavi, Jacob Krantz, Stefan Lee, Chengshu Li, Sagnik Majumder, Oleksandr Maksymets, Roberto Martín-Martín, Roozbeh Mottaghi, Sonia Raychaudhuri, Mike Roberts, Silvio Savarese, Manolis Savva, Mohit Shridhar, Niko Sünderhauf, Andrew Szot, Ben Talbot, Joshua B. Tenenbaum, Jesse Thomason, Alexander Toshev, Joanne Truong, Luca Weihs, Jiajun Wu
[ArXiv](#)
- 85 **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](#)
- 86 **FIND: Identifying Functionally and Structurally Important Features in Protein Sequences with Deep Neural Networks** 2019
 Ranjani Murali, James Hemp, Victoria Orphan, [Yonatan Bisk](#)
[bioRxiv](#)
- 87 **CHALET: Cornell House Agent Learning Environment** 2018
 Claudia Yan, Dipendra Misra, Andrew Bennett, Aaron Walsman, [Yonatan Bisk](#), Yoav Artzi
[ArXiv Preprint 1801.07357](#)

Thesis Committees

- **PhD** [Gabe Sarch](#) Katerina Fragkiadaki and Mike Tarr, CMU
- **PhD** [Brendon Boldt](#) David Mortensen, CMU
- **PhD** [Xiaoyu Zhu](#) Alex Hauptmann, CMU
- **PhD** [Liangke Gui](#) Alex Hauptmann, CMU
- 2024 **PhD** [Jielin Qiu](#) Lei Li & Christos Faloutsos, CMU
- 2024 **PhD** [Nikita Srivatsan](#) Taylor Berg-Kirkpatrick, CMU
- 2024 **PhD** [Lijun Yu](#) Alex Hauptmann, CMU
- 2023 **MSR** [Mateo Guaman Castro](#) Sebastian Scherer, CMU
- 2023 **PhD** [Kaixin Ma](#) Eric Nyberg, CMU
- 2023 **PhD** [Nicholas Botzer](#) Tim Weninger, Notre Dame
- 2023 **PhD** [Naoki Otani](#) Ed Hovy, CMU
- 2023 **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

- 2024 **11-777 MultiModal Machine Learning** *Co-Daniel Fried* # Students: 135, SP
- 2023 **11-851 Talking to Robots** # Students: 16, FA
- 11-767 On-Device Machine Learning** *Co-Emma Strubell* # Students: 69, FA
- 11-777 MultiModal Machine Learning** *Co-Daniel Fried* # Students: 107, SP

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

Diversity and Inclusion

| | | |
|------|--|------|
| 2022 | NAACL 2022 DEI Co-Chair | |
| 2021 | Restructuring of LTI PhD Admissions, | 2yr |
| 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 |

(Senior) Area Chair / Action Editor

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|------|---|-------|
| 2024 | Conference on Robot Learning (CoRL) | Robo |
| | – Conference on Computer Vision and Pattern Recognition (CVPR) | CV |
| | – International Conference on Learning Representations (ICLR) | AI/ML |
| | – European Chapter of the Association for Computational Linguistics (EACL) | NLP |
| | – Senior AE: ACL Rolling Review (ARR) | NLP |
| | – AE: Transactions on Machine Learning Research (TMLR) | AI/ML |
| 2023 | Neural Information Processing Systems (NeurIPS) | AI/ML |
| | – International Conference on Machine Learning (ICML) | AI/ML |
| | – AE: Transactions on Machine Learning Research (TMLR) | AI/ML |
| | – Senior AE: ACL Rolling Review (ARR) | NLP |
| | – Ethics Co-Chair: Association for Computational Linguistics (ACL) | NLP |
| | – Empirical Methods in Natural Language Proc (EMNLP) | NLP |
| 2022 | International Conference on Learning Representations (ICLR) | AI/ML |
| | – Senior MR: Association for the Advancement of Artificial Intelligence (AAAI) | AI/ML |
| | – Senior AC: Empirical Methods in Natural Language Proc (EMNLP) | NLP |
| | – AE: Transactions on Machine Learning Research (TMLR) | AI/ML |
| | – Senior AE: ACL Rolling Review (ARR) | NLP |
| | – Neural Information Processing Systems (NeurIPS) | AI/ML |
| 2021 | International Conference on Learning Representations (ICLR) | AI/ML |
| | – Association for Computational Linguistics (ACL) | NLP |

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|------|--|-------|
| | – Empirical Methods in Natural Language Proc (EMNLP) | NLP |
| | – Neural Information Processing Systems (NeurIPS) | AI/ML |
| | – ACL Rolling Review (ARR) | NLP |
| 2020 | Association for Computational Linguistics (ACL) | NLP |
| | – Neural Information Processing Systems (NeurIPS) | AI/ML |
| | – Asia-Pacific chapter of the Association for Computational Linguistics (AACL) | NLP |
| 2019 | Association for Computational Linguistics (ACL) | NLP |
| 2018 | International Conference on Computational Linguistics | NLP |
| 2016 | Conference on Lexical and Computational Semantics (*SEM) | NLP |

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 – 2023 |
| Robo | CoRL | Conference on Robot Learning | 2019 – 2021, 2023 |
| | AURO | Autonomous Robots | 2022 |
| | RSS | Robotics: Science and Systems | 2022, 2024 |
| | HRI | Human Robot Interaction | 2020 – 2024 |
| | ICRA | International Conference on Robotics and Automation | 2019, 2023, 2024 |
| | IJRR | International Journal of Robotics Research | 2017 |
| | IROS | IEEE/RSJ International Conference on Intelligent Robots and Systems | 2019, 2023 |
| | RA-L | IEEE Robotics and Automation Letters | 2019, 2023 |
| 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, 2023 |

Organization (Workshops and Conference)

| | | |
|------|-------------------|---|
| 2022 | Workshop | <i>Embodied AI Workshop – Challenge Organizer</i> |
| | | Computer Vision and Pattern Recognition |
| 2021 | Workshop | <i>Embodied AI Workshop – Challenge Organizer</i> |
| | | Computer Vision and Pattern Recognition |
| 2020 | Workshop | <i>Embodied Vision, Actions & Language Workshop</i> |
| | | European Conference on Computer Vision |
| | – Workshop | <i>Workshop on Dataset Curation and Security</i> |
| | | 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

Invitations and Talks

- 2024 **Talking to Robots** University of Maryland, College Park
- 2023 **Are We Really Talking to Robots?** “Dialogue with Robots” workshop, UPitt NSF Workshop
Words ≠ language Articulate Robots: Utilizing Language for Robot Learning RSS Workshop
Following Instructions and Asking Questions *Learning by Asking for Intelligent Robots and Agents* RO-MAN Workshop
Following Instructions and Asking Questions Goal Conditioned RL Workshop @ NeurIPS
- 2022 **Can we really connect language to robotics?** *CoRL Wksp on Language and Robot Learning*
How machines learn language: Useful but wrong? *12th Inter. Wksp on Language Production*
Following Instructions and Asking Questions *Univ of Potsdam*
Univ California Santa Barbara NLP
Georgia Tech NLP
Microsoft Research NYC
Penn State University
Universitat Hamburg Crossmodal Learning (CML) summer school
University of Stuttgart Institute of Natural Language Processing
University of Pittsburgh NLP
- 2021 *Univ of Illinois at Urbana-Champaign NLP*
Human Interaction for Robotic Navigation Workshop @ Inter. Conference on Computer Vision
WebQA: Multihop and Multimodal QA *PNNL Mega-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*