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)	
2022 –	**Visiting Professor** *Meta Fundamental AI Research (FAIR)*	*w/ Dhruv Batra*
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 –

▬ Research MS Students

MLT	**Jimin Sun**	she/her	*Embodied Dialogue*	LTI	2022 –

▬ Professional Masters Students

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	

	Abhinav Gupta	he/him	Atharva Pusalkar	he/him
	Praveen Venkatesh	he/him	Shaolin Kataria	he/him
	Shivam Tripathy	he/him		

▬ Alumni, Interns, and Undergraduates

Ugrad	**Xiang Fan**	*Transformer Efficiency*	*(co-E Strubell)*	2022
Intern	**Andy Liu**	*Theory-of-Mind*	*(co-G Neubig)*	2022
Intern	**Deogratias Amani**	he/him *Grounding*		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	
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. **EXCALIBUR: Encouraging and Evaluating Embodied Exploration** — 2023
Hao Zhu, Raghav Kapoor, So Yeon Min, Winson Han, Jiatai Li, Kaiwen Geng, Graham Neubig, <u>Yonatan Bisk</u>, Aniruddha Kembhavi, Luca Weihs
Conference on Computer Vision and Pattern Recognition

4. **Computational Language Acquisition with Theory of Mind** — 2023
Andy Liu, Hao Zhu, Emmy Liu, <u>Yonatan Bisk</u>, Graham Neubig
The Eleventh International Conference on Learning Representations

5. **Don't Copy the Teacher: Data and Model Challenges in Embodied Dialogue** — 2022
So Yeon Min, Hao Zhu, Ruslan Salakhutdinov, <u>Yonatan Bisk</u>
Conference on Empirical Methods in Natural Language Processing

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

7. **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 Conference on Empirical Methods in Natural Language Processing

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

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

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

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

12. **HEAR 2021: Holistic Evaluation of Audio Representations**
    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
    2022

13. **KAT: A Knowledge Augmented Transformer for Vision-and-Language**
    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)
    2022

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

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

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

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

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

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

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

21. **An Empirical Study on the Generalization Power of Neural Representations Learned via Visual Guessing Games**
    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)
    2021

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

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

24. **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)

25. **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 (EMNLP) (Oral)

26. **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

27. **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)

28. **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)

29. **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

30. **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

31. **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

32. **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

33. **HellaSwag: Can a Machine Really Finish Your Sentence?**   2019
Rowan Zellers, Ari Holtzman, Yonatan Bisk, Ali Farhadi, Yejin Choi
Association for Computational Linguistics

34. **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)

35. **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)

36. **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)

37. **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

38. **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)

39. **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)

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

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

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

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

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

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

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

47. **Probing the Linguistic Strengths and Limitations of Unsupervised Grammar Induction** — 2015
<u>Yonatan Bisk</u>, 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)

48. **Labeled Grammar Induction with Minimal Supervision** — 2015
<u>Yonatan Bisk</u>, 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)

49. **Simple Robust Grammar Induction with Combinatory Categorial Grammar** — 2012
<u>Yonatan Bisk</u>, Julia Hockenmaier
Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)

50. **Document-Topic Hierarchies from Document Graphs** — 2012
Tim Weninger, <u>Yonatan Bisk</u>, Jiawei Han
21st ACM international conference on Information and knowledge management (CIKM 2012)

51. **Normal-form parsing for CCGs with generalized composition and type-raising** — 2010
Julia Hockenmaier, <u>Yonatan Bisk</u>
23rd International Conference on Computational Linguistics (Coling 2010)

Workshop Publications

52. **MAEA: Multimodal Attribution for Embodied AI** — 2022
Vidhi Jain, Jayant Sravan Tamarapalli, Sahiti Yerramilli, <u>Yonatan Bisk</u>
Progress and Challenges in Building Trustworthy Embodied AI at NeurIPS 2022

53. **Tackling AlfWorld with Action Attention and Common Sense from Language Models** — 2022
Yue Wu, So Yeon Min, <u>Yonatan Bisk</u>, Ruslan Salakhutdinov, Shrimai Prabhumoye
Language and Reinforcement Learning Workshop at NeurIPS 2022

54. **Worst of Both Worlds: Biases Compound in Pre-trained Vision-and-Language Models** 2022
Tejas Srinivasan, <u>Yonatan Bisk</u>
4th Workshop on Gender Bias in Natural Language Processing

55. **KB-VLP: Knowledge Based Vision and Language Pretraining** 2021
Kezhen Chen, Qiuyuan Huang, <u>Yonatan Bisk</u>, Daniel McDuff, Jianfeng Gao
ICML21 Workshop on Self-Supervised Learning

56. **A Benchmark for Structured Procedural Knowledge Extraction from Cooking Videos** 2020
Frank F. Xu, Lei Ji, Botian Shi, Junyi Du, Graham Neubig, <u>Yonatan Bisk</u>, Nan Duan
Workshop on NLP Beyond Text

57. **Inducing Grammars with and for Neural Machine Translation** 2018
Ke Tran, <u>Yonatan Bisk</u>
2nd Workshop on Neural Machine Translation

58. **Bridging HMMs and RNNs through Architectural Transformations** 2018
Jan Buys, <u>Yonatan Bisk</u>, Yejin Choi
32nd Conference on Neural Information Processing Systems (NIPS 2018), IRASL workshop

59. **Towards a Dataset for Human Computer Communication via Grounded Language Acquisition** 2016
<u>Yonatan Bisk</u>, Daniel Marcu, William Wong
AAAI 2016 Workshop on Symbiotic Cognitive Systems

60. **Unsupervised Neural Hidden Markov Models** 2016
Ke Tran, <u>Yonatan Bisk</u>, Ashish Vaswani, Daniel Marcu, Kevin Knight
Workshop on Structured Prediction for NLP (Oral)

61. **Induction of Linguistic Structure with Combinatory Categorial Grammars** 2012
<u>Yonatan Bisk</u>, Julia Hockenmaier
NAACL HLT Workshop on Induction of Linguistic Structure

Tech Reports

62. **The Framework Tax: Disparities Between Inference Efficiency in Research and Deployment** 2023
Jared Fernandez, Jacob Kahn, Clara Na, <u>Yonatan Bisk</u>, Emma Strubell
ArXiv

63. **Self-Supervised Object Goal Navigation with In-Situ Finetuning** 2022
So Yeon Min, Yao-Hung Hubert Tsai, Wei Ding, Ali Farhadi, Ruslan Salakhutdinov, <u>Yonatan Bisk</u>, Jian Zhang
ArXiv

64. **Retrospectives on the Embodied AI Workshop** 2022
Matt Deitke, Dhruv Batra, <u>Yonatan Bisk</u>, 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

65. **Training Vision-Language Transformers from Captions Alone** 2022
Liangke Gui, Qiuyuan Huang, Alex Hauptmann, <u>Yonatan Bisk</u>, Jianfeng Gao
ArXiv

66. **Multi-View Learning for Vision-and-Language Navigation** 2020
Qiaolin Xia, Xiujun Li, Chunyuan Li, <u>Yonatan Bisk</u>, Zhifang Sui, Jianfeng Gao, Yejin Choi, Noah A. Smith
ArXiv

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

68. **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

69. **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
2023	**PhD** *http://naoki.ninja/* Naoki Otani, CMU	Ed Hovy
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

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

2023 **Neural Information Processing Systems (NeurIPS)**
– **International Conference on Machine Learning (ICML)**
– **Transactions on Machine Learning Research** *Action Editor*
– **Senior AE: ACL Rolling Review**
– **Ethics Co-Chair: Association for Computational Linguistics**

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 – 2023
Robo	**CoRL**	Conference on Robot Learning	2019 – 2021,2023
	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	2019,2023
	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

Invitations and Talks

2023	RSS
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*