Yonatan Bisk

(Grounded) Natural Language Processing Computer Science

 $\bowtie ybisk@yonatanbisk.com$

Advisor: Yejin Choi

Advisor: Daniel Marcu

Positions

2020 **Assistant Professor**, *Carnegie Mellon University* Language Technologies Institute & Robotics Institute

2019 Postdoctoral Scholar

University of Washington & Allen Institute for Artificial Intelligence Information Sciences Institute, University of Southern California

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

Conference and Journal Publications

2019 Improving Robot Success Detection using Static Object Data

Rosario Scalise, Jesse Thomason, <u>Yonatan Bisk</u>, and Siddhartha Srinivasa, *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*

- Early Fusion for Goal Directed Robotic Vision

Aaron Walsman, <u>Yonatan Bisk</u>, Saadia Gabriel, Dipendra Misra, Yoav Artzi, Yejin Choi, and Dieter Fox, *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*

- HellaSwag: Can a Machine Really Finish Your Sentence?

Rowan Zellers, Ari Holtzman, Yonatan Bisk, Ali Farhadi and Yejin Choi,

Proc of the 2019 Conference of the Association for Computational Linguistics (ACL)

- From Recognition to Cognition: Visual Commonsense Reasoning

Rowan Zellers, Yonatan Bisk, Ali Farhadi and Yejin Choi,

The IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Oral

- Tactical Rewind: Self-Correction via Backtracking in Vision-and-Language Navigation

Liyiming Ke, Xiujun Li, <u>Yonatan Bisk</u>, Ari Holtzman, Zhe Gan, Jingjing Liu, Jianfeng Gao, Yejin Choi and Siddhartha Sriniyasa.

The IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Oral

- Prospection: Interpretable Plans From Language By Predicting the Future

Chris Paxton, <u>Yonatan Bisk</u>, Jesse Thomason, Arunkumar Byravan, and Dieter Fox, *International Conference on Robotics and Automation (ICRA)*

- Shifting the Baseline: Single Modality Performance on Visual Navigation & QA

Jesse Thomason, Daniel Gordon, and Yonatan Bisk,

Proc of the 2019 Conference of the N. American Chapter of the Association for Computational Linguistics (Short)

Benchmarking Hierarchical Script Knowledge

Yonatan Bisk, Jan Buys, Karl Pichotta, and Yejin Choi,

Proc of the 2019 Conference of the N. American Chapter of the Association for Computational Linguistics (Short), Oral

- Character-based Surprisal as a Model of Human Reading in the Presence of Errors

Michael Hahn, Frank Keller, <u>Yonatan Bisk</u>, and Yonatan Belinkov, The 41st Annual Meeting of the Cognitive Science Society, Oral

2018 SWAG: A Large-Scale Adversarial Dataset for Grounded Commonsense Inference

Rowan Zellers, Yonatan Bisk, Roy Schwartz and Yejin Choi,

Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP), Oral

- Synthetic and Natural Noise Both Break Neural Machine Translation

Yonatan Belinkov and Yonatan Bisk,

Proceedings of the 6th International Conference on Learning Representations (ICLR), Oral

Learning Interpretable Spatial Operations in a Rich 3D Blocks World

Yonatan Bisk, Kevin Shih, Yejin Choi and Daniel Marcu,

Proceedings of the Thirty-Second Conference on Artificial Intelligence (AAAI-18)

2017 Natural Language Inference from Multiple Premises

Alice Lai, Yonatan Bisk, and Julia Hockenmaier,

Proceedings of the Eighth International Joint Conference on Natural Language Processing, Oral

2016 Evaluating Induced CCG Parsers on Grounded Semantic Parsing

Yonatan Bisk, Siva Reddy, John Blitzer, Julia Hockenmaier and Mark Steedman,

Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing, pp 2022 - 2027

- Natural Language Communication with Robots

Yonatan Bisk, Deniz Yuret and Daniel Marcu,

Proceedings of the 2016 Conference of the North American Chapter of the Association for Computational Linguistics, pp 751 – 761, Oral

Supertagging With LSTMs

Ashish Vaswani, Yonatan Bisk, Kenji Sagae and Ryan Musa,

Proceedings of the 2016 Conference of the North American Chapter of the Association for Computational Linguistics (Short Papers), pp 232–237, Oral

2015 Probing the Linguistic Strengths and Limitations of Unsupervised Grammar Induction

Yonatan Bisk and Julia Hockenmaier,

Proc 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), pp 1395 – 1404, Oral

- Labeled Grammar Induction with Minimal Supervision

Yonatan Bisk, Christos Christodoulopoulos and 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), pp 870 – 876

2013 An HDP Model for Inducing Combinatory Categorial Grammars

Yonatan Bisk and Julia Hockenmaier,

Transactions of the Association for Computational Linguistics, Vol 1, pp 75-88

2012 Simple Robust Grammar Induction with Combinatory Categorial Grammars

Yonatan Bisk and Julia Hockenmaier,

Proceedings of the Twenty-Sixth Conference on Artificial Intelligence (AAAI-12), pp 1643-1649

Document-Topic Hierarchies from Document Graphs

Proceedings of the 21st ACM International Conference on Information and Knowledge Management (CIKM)

2010 Normal-form parsing for Combinatory Categorial Grammars with generalized composition and type-raising

Julia Hockenmaier and Yonatan Bisk,

Proceedings of the 23rd International Conference on Computational Linguistics (Coling 2010), pp 465-473

Workshop Publications & Tech Reports

2018 Inducing Grammars with and for Neural Machine Translation

Ke Tran and Yonatan Bisk,

Workshop on Neural Machine Translation, Best paper - Oral

- Bridging HMMs and RNNs Through Architectural Transformations

Jan Buys, Yonatan Bisk, and Yejin Choi,

Interpretability and Robustness in Audio, Speech, and Language Workshop @ NeurIPS

- CHALET: Cornell House Agent Learning Environment

Claudia Yan, Dipendra Misra, Andrew Bennnett, Aaron Walsman, <u>Yonatan Bisk</u> and Yoav Artzi, *ArXiv*

2016 Unsupervised Neural Hidden Markov Models

Ke Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu and Kevin Knight,

Proceedings of the Workshop on Structured Prediction for NLP, pp 63-71, Oral

Towards a Dataset for Human Computer Communication via Grounded Language Acquisition <u>Yonatan Bisk</u>, Daniel Marcu and William Wong,

Proceedings of the AAAI 2016 Workshop on Symbiotic Cognitive Systems, pp 729 - 732

2012 Induction of Linguistic Structure with Combinatory Categorial Grammars

Yonatan Bisk and Julia Hockenmaier, NAACL HLT Workshop on Inducing Linguistic Structure, pp 90–95

Conference Organization / Area-Chair

- 2019 **Area Chair**, *Vision Robotics Multimodal Grounding and Speech*, Association for Computational Linguistics
 - Workshop Org, Workshop on Spatial Language Understanding and Grounded communication for Robotics, North American Chapter of the Association for Computational Linguistics
- 2018 **Conference Org**, *Social Media Chair*, North American Chapter of the Association for Computational Linguistics
 - Area Chair, International Conference on Computational Linguistics
 - Workshop Org, Generalization in the Age of Deep Learning, North American Chapter of the Association for Computational Linguistics
 - Workshop Org, Wordplay: Reinformcent and Language Learning in Text-Based Games, NeurIPS
- 2017 **Conference Org**, Student Scholarship Chair and Student Volunteer Coordinator, Conference on Empirical Methods in Natural Language Processing
 - Workshop Org, Language Grounding for Robotics, Conference of the Association for Computational Linguistics
- 2016 **Area-Chair**, *Semantic Parsing and Semantic Role Labeling*, Conference on Lexical and Computational Semantics (*SEM)

Reviewer

NLP	ACL	Association for Computational Linguistics,	2017, 2018
	CL	Computational Linguistics Journal,	2017
	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, 2017
	EMNLP	Empirical Methods in Natural Language Processing,	2013 - 2019
	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
	TACL	Transactions of the Assoc. for Computational Linguistics,	2019
Robo	CoRL	Conference on Robot Learning,	2019
	ICRA	International Conference on Robotics and Automation,	2019
	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
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	ICLR	International Conference on Learning Representations,	2019
	ICML	International Conference on Machine Learning,	2019
	IJCAI	International Joint Conference on Artificial Intelligence,	2019
	NeurIPS	Neural Information Processing Systems,	2018 – 2019

Diversity and Inclusion

- 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 Al Technical Track,
 1yr

Freshman Research Mentor, Mentored students to perform research, UTexas First Bytes, Helped organize a summer camp for girls interested in CS, UTexas Co-Founded Breakfast Bytes, Professor talks for pre-college students, UTexas CS Roadshow, CS presentations at Austin middle and high schools, UTexas Invitations and Talks Colloquium Talk, Northwest NLP Invited Talk, University of Notre Dame NLP Seminar Invited Talk, University of California, Irvine AI/ML Seminar Invited Talk, Pacific Northwest National Laboratory Invited Poster, The Impact of Computing in Our Physical World session of the CRA's Comput Community Consortium (CCC) Symposium on Computing Research Colloquium Talk, Toyota Tech. Inst. of Chicago's Midwest Speech & Language Days Community Service Association for Computing Machinery Future of Computing Academy Member,	nen & rested going npaign 2yrs 1yr 1yr
Information Technology's Award for Aspirations in Computing which supports high-school girls interest in CS, UIUC, ISI Tech Junket/Women in CS, CS outreach (presentations and recruitment) for local Urbana-Champa pre-college students, UIUC 2y Freshman Research Mentor, Mentored students to perform research, UTexas First Bytes, Helped organize a summer camp for girls interested in CS, UTexas Co-Founded Breakfast Bytes, Professor talks for pre-college students, UTexas CS Roadshow, CS presentations at Austin middle and high schools, UTexas Invitations and Talks Colloquium Talk, Northwest NLP Invited Talk, University of Notre Dame NLP Seminar Invited Talk, University of California, Irvine AI/ML Seminar Invited Talk, Pacific Northwest National Laboratory Invited Poster, The Impact of Computing in Our Physical World session of the CRA's Comput Community Consortium (CCC) Symposium on Computing Research Colloquium Talk, Toyota Tech. Inst. of Chicago's Midwest Speech & Language Days Colloquium Talk, Toyota Tech. Inst. of Chicago's Midwest Speech & Language Days Community Service Association for Computing Machinery Future of Computing Academy Member,	erested going npaign 2yrs 1yr 1yr 1yr
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Community Service 2017 Association for Computing Machinery Future of Computing Academy Member,	
2017 Association for Computing Machinery Future of Computing Academy Member,	
" a platform that enables the next generation of researchers, to develop a coherent and influent voice that addresses challenging issues facing the field and society in general", Ongoin	
 NSF review panel, Scholarships in the Division of Undergraduate Education 	
- Intel International Science and Engineering Fair,	
Pre-college science competition for the Assoc. for the Advancement of Artificial Intelligence (AAAI	۱A۶)
— University Service	
2017 RoboNLP Reading Groups,	
Reading group for students across robotics and NLP to learn and collaborate. 2y	2yrs
- Organize UW NLP Seminar,	
	2yrs
2013 Fellowships, Assistantships, and Admissions Committee, Decide which students are admitted to the CS PhD and MS programs 1	1yr
 Departmental Graduate Academic Council, Vet departmental seminars and policies in addition 	-
	1yr
- Departmental Grievance Committee,	1yr
Evaluate validity of complaints filed by students against professors 2y	1yr
2011 Engineering Craduate Student Advisory Committee	1yr
2011 Engineering Graduate Student Advisory Committee,	1yr ion to 1yr
Advise the engineering dean on graduate matters and organize events for students 1	1yr ion to 1yr
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2018	Finalist, UW Postdoc Mentoring Award, University of Washington				
2014	Andrew and Shana Laursen Fellow, University of Illinois				
2013	State Farm Companies Foundation Doctoral Scholarship, University of Illinois				
2013	Graduate Student Outstanding Ambassador Award, University of Illinois				
2012	Cognitive Science / Artificial Intelligence Award, Beckman Institute				
2011	Honorable Mention for NSF Graduate Research Fellowship Program				
2009	Honorable Mention for NSF Graduate Research Fellowship Program				
2008	College of Natural Science Summer Research Fellowship, UTexas				
2007	Departmental Summer Research Fellowship, UTexas				
	Teaching				
2014	Teaching Assistant, Graduate Machine Learning in NLP (# Students: 27)	UIUC			
2011	Teaching Assistant, Artificial Intelligence (# Students: 97), UIUC				
2010	Teaching Assistant , Artificial Intelligence (# Students: 63), UIUC				
	Industry Employment				
2014	NLP Research Intern , <i>Google, Inc.</i> , Mountain View, CA Informing grammar induction with semantics under John Blitzer				
2013	NLP Research Intern , <i>Google, Inc.</i> , Mountain View, CA Leveraged syntactic information in question answering with John Blitzer				
2009	iPhone Development Intern , <i>Apple, Inc.</i> , Cupertino, CA Create robust metrics for evaluating keyboard and auto-correction performance				
2006	SQL Server Intern , <i>Microsoft Corporation</i> , Redmond, WA Created data-mining ribbon for Excel 2007 and UI test cases for SQL server				
	References				
	Yejin Choi,				
	Associate Prof at the University of Washington and				
	Senior Research Manager at the Allen Instit for AI,	yejin@cs.washington.edu			
	Dieter Fox,				
	Professor at the University of Washington and Senior Director of Robotics Research at Nvidia,	fox@cs.washington.edu			
	Jenior Enector of Robotics Research at Invitata,	TO A GOOD WASHING LOTT. COLU			

Julia Hockenmaier,

Associate Prof at the University of Illinois at Urbana-Champaign,

Kevin Knight,

Prof at the University of Southern California Chief Scientist for NLP at Didi Chuxing,

kevin.craw ford.knight @gmail.com

juliahmr@illinois.edu