Yonatan Bisk

Natural Language Processing Computer Science

Paul G. Allen School of Computer Sci & Eng 185 E Stevens Way NE Seattle, WA 98195 ⋈ vbisk@vonatanbisk.com

Positions

. **Postdoctoral Scholar**, University of Washington

Advisor: Yejin Choi

2017 Postdoctoral Scholar, Information Sciences Institute, University of Southern California

Advisor: 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 Neuroevo-

lution

Advisor: Risto Miikkulainen Second Reader: Raymond Mooney

Conference and Journal Publications

2018 Synthetic and Natural Noise Both Break Neural Machine Translation

Yonatan Belinkov and Yonatan Bisk,

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

- 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, Julia Hockenmaier,

Proceedings of the Eighth International Joint Conference on Natural Language Processing

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

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, pp 232–237

2015 Probing the Linguistic Strengths and Limitations of Unsupervised Grammar Induction Yonatan Bisk 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 1: Long Papers), pp 1395 – 1404

- 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

Tim Weninger, Yonatan Bisk and Jiawei Han,

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 CHALET: Cornell House Agent Learning Environment

Claudia Yan, Dipendra Misra, Andrew Bennnett, Aaron Walsman, $\underline{\text{Yonatan Bisk}}$ 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

Towards a Dataset for Human Computer Communication via Grounded Language Acquisition

Yonatan Bisk, 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

- 2018 **Conference Organizer**, *Social Media Chair*, North American Chapter of the Association for Computational Linguistics
 - Area Chair, International Conference on Computational Linguistics
 - Workshop Organizer, Generalization in the Age of Deep Learning, North American Chapter of the Association for Computational Linguistics
- 2017 **Conference Organizer**, Student Scholarship Chair and Student Volunteer Coordinator, Conference on Empirical Methods in Natural Language Processing
 - Workshop Organizer, 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)

Invitations and Talks

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

Reviewer

Neural Information Processing Systems (NIPS),	2018
Association for the Advancement of Artificial Intelligence (AAAI),	2018
International Journal of Robotics Research.	2017

	Computational Linguistics Journal,	2017
	Association for Computational Linguistics,	2017, 2018
	Association for Computational Linguistics – Demos,	2018
	International Joint Conference on Natural Language Processing,	2017
	Natural Language Engineering Journal,	2016
	Empirical Methods in Natural Language Processing,	2013 - 2018
	Empirical Methods in Natural Language Processing – Demos,	2018
	European Chapter of the Association for Computational Linguistics,	2014, 2017
	N. American Chapter of the Association for Computational Ling,	2016 – 2018
	Conference on Computational Natural Language Learning,	2016 – 2018
	International Conference on Computational Linguistics,	2016
	NAACL Student Research Workshop,	2013, 2015, 2018
	EACL Student Research Workshop,	2017
	Spatial Language Understanding (SpLU) Workshop	2018
	Workshop on Ethics in NLP,	2017, 2018
	AAAI Symp. on Natural Communication for Human-Robot Collaboration	•
	PC Member 2012 Vol 1. & PC Co-Chair 2013, 2015 Vol 2./Vol 3., @ describing significant research contributions to CS in 140 characters or less	•
	Diversity and Inclusion	
2018	ACM Council on Diversity & Inclusion , Investigating and initiating institution ACM on behalf of underrepresented groups.,	onal change within Ongoing
_	Grace Hopper PC member, Review submissions to Al Technical Track,	1yr
2016	NCWIT Collegiate Award , Review applications for the National Center for Wor Technology's Collegiate Award honoring college women, ISI	men & Information Ongoing
2009	NCWIT Aspirations in Computing , Review applications for the National Cer Information Technology's Award for Aspirations in Computing which supports interested in CS, UIUC, ISI	
-	Tech Junket/Women in CS , CS outreach (presentations and recruitment) Champaign pre-college students, UIUC	for local Urbana- 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
	Community Service	
2017	Association for Computing Machinery Future of Computing Academy Me " a platform that enables the next generation of researchers, to develop a cohe voice that addresses challenging issues facing the field and society in general"	
2017	NSF review panel, Scholarships in the Division of Undergraduate Education	
2017	Intel International Science and Engineering Fair, Pre-college science competition in May 2017 for the Association for the Advance Intelligence (AAAI)	ement of Artificial
	University Service	
2017	Organize UW NLP Seminar, Coordinate with professors to invite and host speakers to the department	2yrs
2015	USC Postdoc Association Representative,	1yr

 Departmental Graduate Academic Council, Vet departmental seminars and policies in adto creating new useful resources and seminars for students Departmental Grievance Committee, Evaluate validity of complaints filed by students against professors Engineering Graduate Student Advisory Committee, Advise the engineering dean on graduate matters and organize events for students Organize Artificial Intelligence & Information Systems Seminar, Coordinate with professors to invite and host speakers to the department PhD Ambassador & Mentor, Introduce students to the department and graduate school during visits and adjustment to the department upon entry Awards, Honors, and Fellowships Finalist, UW Postdoc Mentoring Award, University of Washington Andrew and Shana Laursen Fellow, University of Illinois State Farm Companies Foundation Doctoral Scholarship, University of Illinois Graduate Student Outstanding Ambassador Award, University of Illinois Cognitive Science / Artificial Intelligence Award, Beckman Institute Honorable Mention for NSF Graduate Research Fellowship Program Honorable Mention for NSF Graduate Research Fellowship Program College of Natural Science Summer Research Fellowship, UTexas Departmental Summer Research Fellowship, UTexas Teaching Teaching Assistant, Artificial Intelligence (# Students: 97), UIUC Teaching Assistant, Artificial Intelligence (# Students: 63), UIUC Students & Interns Master's Student, Junpeng Xiao devised an interactive interface to our Al agent for use in Dimeetings, USC 	2013	Decide which students are admitted to the CS PhD and MS programs 19.
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