Yonatan Bisk

MSAII Leon Van Den Berghe

Assistant Professor of Computer Science

 $GHC~6703 \\ \boxtimes ybisk@cs.cmu.edu \\ he/him$

2022

	Positions					
2021 –	Consulting Professor Microsoft Research					
2020 –	Assistant Professor Carnegie Mellon University Language Technologies Institute Robotics Institute (courtesy)					
2019 –	Visiting Researcher <i>M</i>	icrosoft	Research	1	w/ Jiant	eng Gao
2017 –	Postdoctoral Scholar University of Washington	& Allen I	nstitute for Artificial Intelligend	ce	w/ Y	ejin Choi
2015 –	Postdoctoral Scholar					
	Information Sciences Insti	tute, Uni	versity of Southern California		w/ Dani	el Marcu
	Education					
2015		onco Th	a University of Illinois at Urb	ana Champaign		
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				evolution	
	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 –
	Dagage Magtau	. C+l				
	Research Masters					
MLT	Josh Zhanson		Embodied Visual Reps		LTI	2020 –
MLT	Yingshan Chang		Multimodal Reasoning		LTI	2020 –
MS	Xiaoyu Zhang	she/her	Collaborative Robot Art	(co-O Kroemer)	5th	2021 –
	Professional Masters Students					
MRSD	Jashkumar Diyora	he/him	Modular Teleop with Auton	omy (*co-Z Erickson)	RI	2021 -
MRSD	Shruti Gangopadhyay	she/her	Modular Teleop with Autonomy *		RI	2021 -
MRSD	Jigar Patel	he/him	Modular Teleop with Autonomy *		RI	2021 -
MRSD	Prakhar Pradeep	he/him	Modular Teleop with Autonomy *		RI	2021 -
MRSD	Shivani Sivakumar	she/her	Modular Teleop with Autonomy *		RI	2021 -
MSAII	Suchong Dong		Visual Patent Search			2022
MSAII	Zhiyuan Guo		Visual Patent Search			2022
MSAII	Mansi Goyal		Visual Patent Search			2022
MSAII	Marta Mendez Simon		Visual Patent Search			2022
MSAII	Sreenidhi SundaramVisual Patent Search2022			2022		
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Visual Patent Search

	Alumni, Interns, and U	Indergraduates		
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 Deper		I PCFGs	2020
	Hao Zhu, <u>Yonatan Bisk</u> , Graham Transactions of the Association for	•		
2.	An HDP Model for Inducing		rammars	2013
	Yonatan Bisk, Julia Hockenmaier,	C		
	Transactions of the Association fo	or Computational Linguistics		
	Conference Publication	าร		
3.	FILM: Following Instructions	in Language with Modular	Methods	2022
	So Yeon Min, Devendra Singh Chaplot, Pradeep Ravikumar, Yonatan Bisk, Ruslan Salakhutdinov,			
1	The Tenth International Conferen Dependency Induction Throu	= '	ontion	2021
4.	Ruisi Su, Shruti Rijhwani, Hao Zh			2021
	The SIGNLL Conference on Comp		rning	
5.	Language Grounding with 3I Jesse Thomason, Mohit Shridhar,	•	ko Zattlamovor	2021
	Conference on Robot Learning	Tollatali Bisk, Cillis Faxtoli, Eu	ke Zettlemoyer,	
6.	TACo: Token-aware Cascade		'ideo-Text Alignment	2021
	Jianwei Yang, <u>Yonatan Bisk</u> , Jiant International Conference on Comp	=		
7.	Few-shot Language Coordina		f Mind	2021
	Hao Zhu, Graham Neubig, Yonata	nn Bisk,		
0	The Thirty-eighth International C	=		2021
8.	Grounding 'Grounding' in NI Khyathi Raghavi Chandu, Yonatai			2021
	Findings of The 2021 Conference		ional Linguistics	
9.	An Empirical Study on the G Guessing Games	eneralization Power of Neur	ral Representations Learned via	Visual 2021
		oannis Konstas, Antonio Vergari,	, Emanuele Bastianelli, Andrea Vanzo	
	Lemon,		for Communitation of Linearization (One	1)
10.		·	for Computational Linguistics, (Ora uation in Commonsense Questi	•
10.	swering	struction for Zero shot Evan	dution in Commonsense Questi	2021
	Kaixin Ma, Filip Ilievski, Jonathar 35th AAAI Conference on Artificia		berg, Alessandro Oltramari,	
11.	ALFWorld: Aligning Text an	6	for Interactive Learning	2021
	Mohit Shridhar, Xingdi Yuan, Mai	rc-Alexandre Côté, <u>Yonatan Bisk</u>	, Adam Trischler, Matthew Hauskne	_
10	Proceedings of the International (= :		
12.	Guessing Games	otual Representations from	Perceptual Information in S	2020
	Alessandro Suglia, Antonio Vergar	i, Ioannis Konstas, <u>Yonatan Bisk</u> ,	, Emanuele Bastianelli, Andrea Vanzo	o, Oliver
	Lemon, The 28th International Conference	e on Computational Linguistics.	(Oral)	
13.	Experience Grounds Language		\	2020
	Yonatan Bisk, Ari Holtzman, Jes	se Thomason, Jacob Andreas, Y	Yoshua Bengio, Joyce Chai, Mirella	Lapata,
	Angeliki Lazaridou, Jonathan May Proceedings of the 2020 Conferen		Into, Joseph Turian, ural Language Processing (EMNLP)	, (Oral)
14.	RMM: A Recursive Mental N			2020
	Homero Roman Roman, Yonatan			
	Froceedings of the 2020 Conferen	ce on Empirical Methods in Nati	ural Language Processing: Findings	

15.	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)
16.	PIQA: Reasoning about Physical Commonsense in Natural Language Yonatan Bisk, Rowan Zellers, Ronan Le Bras, Jianfeng Gao, Yejin Choi, Thirty-Fourth AAAI Conference on Artificial Intelligence, (Oral)
17.	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
18.	Defending Against Neural Fake News Rowan Zellers, Ari Holtzman, Hannah Rashkin, <u>Yonatan Bisk,</u> Ali Farhadi, Franziska Roesner, Yejin Choi, Thirty-third Conference on Neural Information Processing Systems
19.	Improving Robot Success Detection using Static Object Data Rosario Scalise, Jesse Thomason, Yonatan Bisk, Siddhartha Srinivasa, Proceedings of the 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems
20.	Early Fusion for Goal Directed Robotic Vision Aaron Walsman, Yonatan Bisk, Saadia Gabriel, Dipendra Misra, Yoav Artzi, Yejin Choi, Dieter Fox, Proceedings of the 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems
21.	HellaSwag: Can a Machine Really Finish Your Sentence? Rowan Zellers, Ari Holtzman, Yonatan Bisk, Ali Farhadi, Yejin Choi, Proceedings of the Association for Computational Linguistics
22.	From Recognition to Cognition: Visual Commonsense Reasoning Rowan Zellers, Yonatan Bisk, Ali Farhadi, Yejin Choi, The IEEE Conference on Computer Vision and Pattern Recognition (CVPR), (Oral)
23.	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)
24.	Prospection: Interpretable Plans From Language By Predicting the Future Chris Paxton, Yonatan Bisk, Jesse Thomason, Arunkumar Byravan, Dieter Fox, Proceedings of the International Conference on Robotics and Automation (ICRA)
25.	Shifting the Baseline: Single Modality Performance on Visual Navigation & QA 2019 Jesse Thomason, Daniel Gordon, <u>Yonatan Bisk</u> , Proceedings of the Annual Conference of the North American Chapter of the Association for Computational Linguistics
26.	Benchmarking Hierarchical Script Knowledge Yonatan Bisk, Jan Buys, Karl Pichotta, Yejin Choi, Proceedings of the Annual Conference of the North American Chapter of the Association for Computational Linguistics, (Oral)
27.	Character-based Surprisal as a Model of Reading Difficulty in the Presence of Errors Michael Hahn, Frank Keller, Yonatan Bisk, Yonatan Belinkov, The 41st Annual Meeting of the Cognitive Science Society, (Oral)
28.	SWAG: A Large-Scale Adversarial Dataset for Grounded Commonsense Inference 2018 Rowan Zellers, Yonatan Bisk, Roy Schwartz, Yejin Choi, Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP), (Oral)
29.	Synthetic and Natural Noise Both Break Neural Machine Translation Yonatan Belinkov, Yonatan Bisk, Proceedings of the 6th International Conference on Learning Representations, (Oral)
30.	Learning Interpretable Spatial Operations in a Rich 3D Blocks World Yonatan Bisk, Kevin Shih, Yejin Choi, Daniel Marcu, Proceedings of the Thirty-Second Conference on Artificial Intelligence (AAAI-18)
31.	Natural Language Inference from Multiple Premises Alice Lai, Yonatan Bisk, Julia Hockenmaier, Proceedings of the Eighth International Joint Conference on Natural Language Processing, (Oral)

32.	Natural Language Communication with Robots Yonatan Bisk, Deniz Yuret, Daniel Marcu, Proceedings of the 15th Annual Conference of the North American Chapter of the Association for Computinguistics, (Oral)	2016 tational
33.	Supertagging with LSTMs Ashish Vaswani, Yonatan Bisk, Kenji Sagae, Ryan Musa, Proceedings of the 15th Annual Conference of the North American Chapter of the Association for Computinguistics (Short Papers), (Oral)	2016 tational
34.	Evaluating Induced CCG Parsers on Grounded Semantic Parsing Yonatan Bisk, Siva Reddy, John Blitzer, Julia Hockenmaier, Mark Steedman, Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing	2016
35.	Probing the Linguistic Strengths and Limitations of Unsupervised Grammar Induction Yonatan Bisk, Julia Hockenmaier, Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics and the 7th tional Joint Conference on Natural Language Processing (Volume 1: Long Papers), (Oral)	2015 Interna-
36.	Labeled Grammar Induction with Minimal Supervision Yonatan Bisk, Christos Christodoulopoulos, Julia Hockenmaier, Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics and the 7th tional Joint Conference on Natural Language Processing (Volume 2: Short Papers)	2015 Interna-
37.	Simple Robust Grammar Induction with Combinatory Categorial Grammar Yonatan Bisk, Julia Hockenmaier, Proceedings of the Twenty-Sixth Conference on Artificial Intelligence (AAAI-12)	2012
38.	Document-Topic Hierarchies from Document Graphs Tim Weninger, Yonatan Bisk, Jiawei Han, Proceedings of the 21st ACM international conference on Information and knowledge management 2012)	2012 (CIKM
39.	Normal-form parsing for CCGs with generalized composition and type-raising Julia Hockenmaier, Yonatan Bisk, Proceedings of the 23rd International Conference on Computational Linguistics (Coling 2010)	2010
	Workshop Publications	
40.	KB-VLP: Knowledge Based Vision and Language Pretraining Kezhen Chen, Qiuyuan Huang, Yonatan Bisk, Daniel McDuff, Jianfeng Gao, ICML21 Workshop on Self-Supervised Learning	2021
41.	A Benchmark for Structured Procedural Knowledge Extraction from Cooking Videos Frank F. Xu, Lei Ji, Botian Shi, Junyi Du, Graham Neubig, <u>Yonatan Bisk</u> , Nan Duan, <i>Workshop on NLP Beyond Text</i>	2020
42.	Inducing Grammars with and for Neural Machine Translation Ke Tran, Yonatan Bisk, Proceedings of the 2nd Workshop on Neural Machine Translation	2018
43.	Bridging HMMs and RNNs through Architectural Transformations Jan Buys, <u>Yonatan Bisk</u> , Yejin Choi, 32nd Conference on Neural Information Processing Systems (NIPS 2018), IRASL workshop	2018
44.	Towards a Dataset for Human Computer Communication via Grounded Language Acqu 2016 Yonatan Bisk, Daniel Marcu, William Wong, Proceedings of the AAAI 2016 Workshop on Symbiotic Cognitive Systems	isition
45.	Unsupervised Neural Hidden Markov Models Ke Tran, Yonatan Bisk, Ashish Vaswani, Daniel Marcu, Kevin Knight, Proceedings of the Workshop on Structured Prediction for NLP, (Oral)	2016
46.	Induction of Linguistic Structure with Combinatory Categorial Grammars Yonatan Bisk, Julia Hockenmaier, NAACL HLT Workshop on Induction of Linguistic Structure	2012
	Tech Reports	
47.	KAT: A Knowledge Augmented Transformer for Vision-and-Language Liangke Gui, Borui Wang, Qiuyuan Huang, Alex Hauptmann, Yonatan Bisk, Jianfeng Gao, ArXiv	2021

48.	Learning When and What to Ask: a F Khanh Nguyen, <u>Yonatan Bisk</u> , Hal Daume III <i>ArXiv</i>	lierarchical Reinforcement Learning Framework	2021
49.	WebQA: Multihop and Multimodal Qa Yingshan Chang, Mridu Narang, Hisami Suzu ArXiv	A ıki, Guihong Cao, Jianfeng Gao, <u>Yonatan Bisk</u> ,	2021
50.	Worst of Both Worlds: Biases Compo Tejas Srinivasan, <u>Yonatan Bisk</u> , <i>ArXiv</i>	und in Pre-trained Vision-and-Language Models	2021
51.	Multi-View Learning for Vision-and-La Qiaolin Xia, Xiujun Li, Chunyuan Li, <u>Yonatar</u> <i>ArXiv</i>	inguage Navigation n Bisk, Zhifang Sui, Jianfeng Gao, Yejin Choi, Noah A. Sm	2020 nith,
52.		ructurally Important Features in Protein Sequence	
	Deep Neural Networks Ranjani Murali, James Hemp, Victoria OrphabioRxiv	n, <u>Yonatan Bisk,</u>	2019
53.	CHALET: Cornell House Agent Learn Claudia Yan, Dipendra Misra, Andrew Benne ArXiv Preprint 1801.07357	ing Environment tt, Aaron Walsman, <u>Yonatan Bisk,</u> Yoav Artzi,	2018
54.	Unsupervised Grammar Induction with Yonatan Bisk, University of Illinois at Urbana-Champaign	Combinatory Categorial Grammars	2015
	Thesis Committees		
_	PhD Kaixin Ma	Eric Nyberg,	CMU
_	PhD Dylan Ebert	Ellie Pavlick, E	
_	PhD Shikib Mehri	Maxine Eskenazi ,	
_	PhD Volkan Cirik	Louis-Philippe Morency and Taylor Berg-Kirkpatrick,	CMU
_	PhD Shruti Palaskar	Alan Black and Florian Metze,	CMU
_	PhD Dheeraj Rajagopal	Ed Hovy,	CMU
_	PhD Evangelia Spiliopoulou	Ed Hovy,	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: 4	2, SP
2021	11-767 On-Device Machine Learning	Co-Emma Strubell # Students: 3	31, FA
2022	11-777 MultiModal Machine Learning	# Students:	: , SP
	Diversity and Inclusion		
2022	NAACL 2022 DEI Co-Chair,	on	going
2020	LTI DEI Committee,		going
2019	CrashCourse AI Educational YouTube s Ashe. Co-Written with Lana Yarosh and	eries targeted at high-school age viewers. Hosted by	
2018		Investigating and initiating institutional change within	1 ACM
_	Grace Hopper PC member Review sub-	missions to AI Technical Track,	1yr
2016	NCWIT Collegiate Award Review appl Technology's Collegiate Award honoring of	ications for the National Center for Women & Informollege women, ISI	mation <i>3yrs</i>

2009	NCWIT Aspirations in Computing Review applications for the National Center for Women & mation Technology's Award for Aspirations in Computing which supports high-school girls inter in CS, UIUC, ISI	
_	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

Funding and Awards

2021 NSF EAGER

Co-PI Graham Neubig, Dan Yurovsky, Aug 2021 – Dec 2022, \$300K

- LTI Junior Chair, Aug 2021 Aug 2023
- 2020 Facebook RFP Learning Dynamic Multimodal Inference for On-Device VQA Co-PI Emma Strubell, Sept 2020 – May 2021, \$75K
- 2020 **Google exploreCSR** Broad & Inclusive Language Technology (BILT) @ CMU LTI Co-PI Emma Strubell, Graham Neubig, Summer 2021, \$15k

Organization (Workshops and Conference)

- 2022 **Workshop** *Embodied Al Workshop Challenge Organizer* Computer Vision and Pattern Recognition
- 2021 **Workshop** *Embodied Al Workshop Challenge Organizer* Computer Vision and Pattern Recognition
- 2020 **Workshop** *Embodied Vision, Actions & Language Workshop* European Conference on Computer Vision
 - Workshop Workshop on Dataset Curation and Security NeurIPS
- 2019 **Workshop** Spatial Language Understanding and Grounded communication for Robotics North American Chapter of the Association for Computational Linguistics
- 2018 Conference Social Media Chair

North American Chapter of the Association for Computational Linguistics

- Workshop Generalization in the Age of Deep Learning
 North American Chapter of the Association for Computational Linguistics
- Workshop Wordplay: Reinformcent and Language Learning in Text-Based Games NeurIPS
- 2017 **Conference** Student Scholarship Chair and Student Volunteer Coordinator Conference on Empirical Methods in Natural Language Processing
 - Workshop Language Grounding for Robotics
 Conference of the Association for Computational Linguistics

Area Chair / Action Editor

2022 International Conference on Learning Representations

- Association for the Advancement of Artificial Intelligence Senior Meta-Reviewer
- Transactions on Machine Learning Research Action Editor
- ACL Rolling Review
- 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, standing
	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, 2020
	EMNLP	Empirical Methods in Natural Language Processing	2013 - 2020
	IJCNLP	International Joint Conference on Natural Language Processing	2017
	NAACL	N. American Chapter of the Association for Computational Ling	2016 – 2019
	NLE	Natural Language Engineering Journal	2016
	*SEM	Joint Conference on Lexical and Computational Semantics	2020
	TACL	Transactions of the Assoc. for Computational Linguistics	2019
Robo	CoRL	Conference on Robot Learning	2019 – 2021
	RSS	Robotics: Science and Systems	2022
	HRI	Human Robot Interaction	2020 – 2022
	ICRA	International Conference on Robotics and Automation	2019
	IJRR	International Journal of Robotics Research	2017
	IROS	$\ensuremath{\mathrm{IEEE}/\mathrm{RSJ}}$ International Conference on Intelligent Robots and System	ns 2019
	RA-L	IEEE Robotics and Automation Letters	2019
AI/ML	AAAI	Association for the Advancement of Artificial Intelligence	2018, 2021
	ICLR	International Conference on Learning Representations	2019 – 2020
	ICML	International Conference on Machine Learning	2019
	IJCAI	International Joint Conference on Artificial Intelligence	2019
	NeurIPS	Neural Information Processing Systems	2018 – 2019
CV	CVPR	Computer Vision and Pattern Recognition	2020

Invitations and Talks

- 2022 Following Instructions and Asking Questions UCSB NLP
- 2021 Following Instructions and Asking Questions UIUC NLP

WebQA: Multihop and Multimodal QA PNNL Mega-Al Seminar

Following Instructions and Asking Questions *Human Interaction for Robotic Navigation Workshop* @ *ICCV*

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 Al center

Understanding the Potential of Scaling Artificial Intelligence for Science Applications Panel PNNL

Guest Lecture: Embodiment for NLP UPenn

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 Al

Cornell Learning Machines seminar

Stanford NLP seminar

- 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