



- **Integrating natural language generation and speech synthesis:** Developing methods for adapting a language generator to the strengths and weaknesses of a synthetic voice. Investigating methods of using information structure to specify contextually appropriate intonation.
- **Building expressive synthetic voices:** Developing methods of optimizing the selection of sentences to record in building an expressive synthetic voice, using machine learning and taking intonation into account. Evaluating the effectiveness of expressive synthetic voices using eye tracking.

◇ **Associate Professor**, The Ohio State University Oct. 2011 – May 2019  
Department of Linguistics

◇ **Assistant Professor**, The Ohio State University Sept. 2005 – Sept. 2011  
Department of Linguistics

◇ **Consultant**, University of Edinburgh June 2005 – Sept. 2005; Aug.–Sept. 2006  
School of Informatics

- Devised novel algorithm for surface realization from disjunctive logical forms, and implemented initial version in OpenCCG.
- Extended coverage of sentence planner and grammar in the FLIGHTS spoken language dialogue system.
- Advised on grammar development for Methodius project.

◇ **Research Fellow**, University of Edinburgh June 2002 – May 2005  
School of Informatics

Accomplishments:

- Developed the OpenCCG open source realizer for Combinatory Categorical Grammar, the first practical, reusable realizer for CCG.
- On the COMIC (COnversational Multimodal Interactions with Computers) project, led the specification of the output side of the system; developed the OpenCCG grammar; helped design the multimodal content planner and the system’s ontology; jointly developed custom unit selection voice; and coordinated the output-oriented evaluation of the system.
- For the FLIGHTS (Fancy Linguistically Informed Generation of Highly Tailored Speech) project, jointly devised algorithm for using user model to determine contextually appropriate intonation; developed techniques for XSLT-based sentence planning; developed OpenCCG grammar; and helped build custom unit selection voice.

INDUSTRY EXPERIENCE ◇ **Visiting Researcher**, Facebook Aug.–Dec. 2018; Aug.–Aug. 2020–2021  
· Dialogue and NLG

◇ **Consultant**, Knexus Research May–Oct. 2010; Aug.–Dec. 2011; Sept.–April 2012–2013  
· Developed OpenCCG grammar for parsing and realizing instructions with spatial locatives.  
· Provided advice on API-level integration with OpenCCG.  
· Developed CFG compiler for OpenCCG grammars for use in speech recognition.

◇ **Senior Computational Linguist**, CoGenTex, Inc. July 1994 – June 2002  
Ithaca, NY

Highlights:

- Developed EXEMPLARS, an object-oriented framework for dynamic text generation with XML. The EXEMPLARS framework has served as an enabling technology for all of CoGenTex’s commercial applications, including its *Project Reporter* and *Chart Explainer* products; *Recommender*, licensed to Active Decisions, and patented as US 7,418,447 B2; and *Definition Builder*, a unique tool developed by CoGenTex for Experian that employs natural language feedback texts to support point-and-click editing of complex query definitions.
- As technical lead of the *Definition Builder* team during a four-year, three person consulting effort, designed and implemented the internal high-level query representation language and associated APIs, and coordinated the development of continual usability improvements. *Definition Builder* was successfully rolled out within Experian after the first year of the project.
- Designed and jointly implemented the CogentHelp prototype for authoring dynamically generated on-line help.
- Developed the RIPTIDES summarizer, which combined natural language generation based on information extraction with extractive summarization into hypertext reports.

GRANTS AND RESEARCH CONTRACTS	◇ <b>The Ohio State University</b> , AI in A&H&E Seed Grant “Towards More Natural Conversational Interaction with a COSI Language Pod Guide”	\$50,000; 2023
	◇ <b>The Ohio State University</b> , PRE Accelerator Award “Towards a Conversational Assistant for Patient Prep”	\$50,000; 2022–2023
	◇ <b>Cisco</b> , Collaborative Research Agreement “Towards Transparent Interactive Natural Language Interfaces to Databases,” with Huan Sun PI.	\$200,000; 2022–2023
	◇ <b>Facebook</b> , Collaborative Research Agreement “Enhancing Quality and Controllability of Neural Natural Language Generation”	\$2,385,258; 2019–2022
	◇ <b>National Institutes of Health</b> , AHRQ Grant “Improving Patient Safety using Virtual Reality,” with Douglas Danforth PI.	\$2,000,000; 2018–2023
	◇ <b>National Science Foundation</b> , Robust Intelligence Grant “RI: Small: Using Automatically Generated Paraphrases and Discriminative ASR Training to Author Robust Question-Answering Dialogue Systems,” PI (with co-PIs Eric Fosler-Lussier, Douglas Danforth and William Schuler), grant no. IIS-1618336.	\$450,000; 2016–2021
	◇ <b>National Science Foundation</b> , Workshop Grant “Workshop: Uphill Battles in Language Technology,” PI, with co-PIs Annie Louis (Univ. Essex), Michael Roth (Univ. Edinburgh), Bonnie Webber (Univ. Edinburgh) and Luke Zettlemoyer (Univ. Washington), grant no. 1640428.	\$31,977; 2016–2017
	◇ <b>National Science Foundation</b> , Robust Intelligence Grant “Closing the Loop: Inducing High-Precision Grammars for Generating Disambiguating Paraphrases,” grant no. IIS-1319318.	\$307,982; 2013–2018
	◇ <b>National Board of Medical Examiners</b> , Research Grant “Virtual patients simulations to assess data-gathering and clinical reasoning,” co-PI (with 4 others), Douglas Danforth PI, grant no. 1112-064.	\$74,068; 2013–2014
	◇ <b>Air Force Research Laboratory</b> , Research Contract “Monolingual Multiword Alignment and Grammar-Based Paraphrase Generation for Detecting Semantic Similarity and Evaluating MT,” subcontract to BBN contract no. FA8750-09-C-0179.	\$198,945; 2012
	◇ <b>National Science Foundation</b> , Robust Intelligence Grant “Exploratory Research on Acquiring and Adapting Sentence Planning Resources for Generating with Discourse Combinatory Categorical Grammar,” grant no. IIS-1143635.	\$149,937; 2011–2014

- ◇ **National Science Foundation**, Robust Intelligence Grant \$396,621; 2008–2012  
“Learning to Generate High Quality Paraphrases with a Broad Coverage Lexicalized Grammar,” grant no. IIS-0812297 (includes two REU supplements).
  - ◇ **The Ohio State University**, Innovation Grant \$40,900; 2007–2009  
“Building Expressive Synthetic Voices for Conversational Systems,” Arts and Humanities Innovation Grant. PI, with co-PIs Chris Brew and Eric Fosler-Lussier.
  - ◇ **National Science Foundation**, Workshop Grant \$23,000; 2007  
“A Proposal for a Workshop on Shared Tasks and Comparative Evaluation in Natural Language Generation.” PI, with co-PI Robert Dale, Macquarie University.
  - ◇ **DARPA**, TIDES Text-Processing Initiative \$1,300,000; 2000–2002  
“Rapidly Portable Translingual Information Extraction and Interactive Multidocument Summarization,” contract no. N66001-00-C-8009. Co-PI with Claire Cardie, Cornell University.
  - ◇ **Army Research Laboratory**, SBIR Phase I \$75,000; 1999  
“Translingual Information Access,” contract no. DAAD17-99-C-0005. Co-PI with Martha Palmer, University of Pennsylvania.
  - ◇ **Air Force Research Laboratory**, SBIR Phase II \$750,000; 1994–1998  
“Linguistically-Based Software Documentation,” contract no. F30602-94-C-0124. Took over as PI after the first year of the project.
- OPEN SOURCE SOFTWARE
- ◇ **OpenCCG** (<http://openccg.sourceforge.net>) 2002–present  
Managed library development since 2002 and developed surface realizer. To date, OpenCCG has been used in the COMIC, FLIGHTS, CrAg, Methodius and INDIGO projects in Edinburgh; the DIALOG, SAMMIE, CoSy and Adapting Information Density projects in Saarbrücken; the JAST project in Munich; the AdaRTE project in Pavia; the STaR-UI project in Eveleigh, New South Wales. It has also been used for teaching purposes in Edinburgh, Saarbrücken, Ankara, Austin and Columbus, and has played an important role in multiple dissertations and thesis projects. Version 0.9.5 was released in March, 2013, and a grammar compiler for the Sphinx speech recognition system (developed for Knexus Research Corporation) was released open source in 2014. According to SourceForge, OpenCCG releases have been downloaded over 10,000 times.
  - ◇ **MadlyAmbiguous** (<http://madlyambiguous.osu.edu>) 2016–2018  
Supervised the development of this demo/game for teaching students about structural ambiguity and the difficulties it poses for natural language processing, both in undergraduate classrooms as well as in informal science learning at the COSI Language Pod.
- PATENTS
- ◇ **US 7,418,447 B2** 2008  
David E. Caldwell, Michael White and Tanya Korelsky, *Natural Language Product Comparison Guide Synthesizer* (filed Jan. 2001, awarded Aug. 2008).
- ACTIVITIES
- ◇ **Invited Talks**
  - Google NYC/London 2022  
“Towards Reliable, Data-Efficient Modeling for Compositional Neural NLG”
  - University of Pittsburgh 2022  
“The Case for Reviving Discourse Relations in NLG”
  - Tencent Seattle AI Lab 2021  
“Data-Efficient Modeling for Compositional Neural NLG”
  - International Conference on Natural Language Generation 2020  
“Data-Efficient Modeling for Compositional Neural NLG”
  - University of North Carolina 2019  
“Constrained Decoding for Neural NLG from Compositional Representations in Task-Oriented Dialogue”

North Carolina State University	2019
“Combining CNNs and Pattern Matching for Question Interpretation in a Virtual Patient Dialogue System: The Replication”	
Australasian Language Technology Association	2018
“Parsing with Dynamic Continuized CCG”	
Facebook	2018
“Ambiguity Avoidance in Natural Language Generation: Steering Clear of <i>Vicious</i> Ambiguities, Crowdsourcing Clarifications for Parser Training, and What’s Next”	
Case Western Reserve University	2017
“Ambiguity Avoidance in Natural Language Generation: Steering Clear of <i>Vicious</i> Ambiguities and Crowdsourcing Clarifications for Parser Training”	
University of Aberdeen	2016
“Dependency Locality in Natural Language Generation”	
University of Tübingen	2015
“Locality Effects and Ambiguity Avoidance in Natural Language Generation”	
University of Saarland, Saarbrücken	2015
“Locality Effects and Ambiguity Avoidance in Natural Language Generation”	
University of Sydney	2013
“Making Better Use of Syntax in Monolingual Alignment”	
Macquarie University	2012
“Feature Engineering for Multiword Monolingual Alignment”	
Macquarie University	2012
“Minimal Dependency Length in Realization Ranking”	
University of Texas	2012
“Minimal Dependency Length in Realization Ranking”	
Australian HCSNet WinterFest Mini-Course	2010
“Statistical Natural Language Generation”	
University of Indiana	2010
“Generating with Discourse Combinatory Categorical Grammar”	
University of Edinburgh	2009
“Generating with Discourse Combinatory Categorical Grammar”	
University of Illinois, Urbana-Champaign	2008
“Towards High-Quality Paraphrasing with CCG”	
University of Edinburgh	2006
“Learning to Say It Well: Reranking Realizations by Predicted Synthesis Quality”	
University of Saarland, Saarbrücken	2005
“Anytime Example-Driven Realization with CCG”	
ITRI, University of Brighton	2003
“Anytime Chart Realization with CCG”	
University of Rochester	2000
“Multidocument Summarization via Information Extraction”	
North Carolina State University, Raleigh	1999
“Building NLG Systems with EXEMPLARS”	
Cornell University, Ithaca	1998
Topic: Careers in Computational Linguistics	
Carnegie Mellon University, Pittsburgh	1995
“A Computational Approach to Aspectual Composition”	

- ◇ **Squibs Editor**  
*Computational Linguistics* 2017–present
- ◇ **Editorial Board Member**  
*Computational Linguistics* 2010–2012
- ◇ **Board Member**  
North American Chapter of the Association for Computational Linguistics (NAACL), Secretary 2014–2015  
Special Interest Group in Natural Language Generation (SIGGEN) 2007–2010
- ◇ **Professional Committees**  
SIGDIAL Best Paper Award Committee 2021  
NAACL Nominating Committee, chair 2018  
NAACL Nominating Committee 2016–2017
- ◇ **Shared Task Organizer**  
1<sup>st</sup> Generation Challenges Surface Realization Shared Task 2011
- ◇ **Conference/Workshop Organizer**  
Co-organizer, Workshop on Discourse Structure in Neural NLG 2019  
Co-organizer, Workshop on Uphill Battles in Language Technology 2016  
Publications Co-Chair, ACL 2012  
Co-organizer, International Natural Language Generation Conference 2008  
Local Sponsorship Chair, ACL: HLT 2008  
Co-organizer, Workshop on Shared Tasks and Comparative Evaluation in Natural Language Generation 2007
- ◇ **Local Host**  
North American Computational Linguistics Olympiad 2010–2012
- ◇ **Panelist**  
NSF Review Panels (9) 2006–2021  
INLG Real-World NLG Panel Host 2021  
“NLG Idol” Panel at INLG on Underappreciated Work in NLG 2014  
ACL TeachCL Workshop Panel on Interdisciplinary Teaching 2008  
ENLG-01 Panel on Search Methods for NLG 2001  
AAAI Fall Symposium Panel on Layout and Generation 2000
- ◇ **Ad hoc Proposal Review**  
NSF (4) 2014–2015  
EPSRC (2) 2012–2014
- ◇ **Program Committee Chair**  
INLG 2008
- ◇ **Senior Area Chair**  
NAACL 2022, ACL 2021, EMNLP 2019
- ◇ **Area Chair / Senior Program Committee Member**  
ACL Rolling Review 2021–2023, COLING 2022, ACL 2022, INLG 2022, INLG 2020, EMNLP 2020, COLING 2020, NAACL-HLT 2019, NAACL-HLT 2018, COLING 2016, NAACL-HLT 2007
- ◇ **Program Committee Member (Recent)**  
GEM 2022, BEA 2022, CtrlGen Workshop (NeurIPS-21), EACL 2021, AAAI 2021, BEA 2021, EMNLP 2021, INLG 2021 (Best Reviewer Award), SIGDIAL YRRSDS 2021, ACL Rolling Review (June) 2021, HLD 2020, BEA 2020, ACL 2020, SyntaxFest 2019, BEA-14 (2019), ACL 2019, INLG 2018, EMNLP 2018 (Best Reviewer Award), SRST 2018, BEA-13 (2018), ACL 2018, NAACL 2018, BEA-12 (2017), INLG 2017, EMNLP 2017, ACL 2017, EACL 2017, TLT 2017, DGfS 2017, EMNLP 2016, INLG 2016, ACL 2016, NAACL 2016, BEA-11 (2016), ACL 2015, NAACL 2015, CG 2015, TLT 2014, ACL 2014, INLG 2014,

COLING 2014, NAACL 2013, ENLG 2013, COLING 2012, EACL 2012, NAACL 2012, INLG 2012, \*SEM 2012, SemDial 2011 (Los Angeles), ENLG 2011, ACL HLT 2011, ACL HLT 2011 Workshop on Text-to-Text Generation, NAACL HLT 2010, INLG 2010, ACL 2010 Student Research Workshop, COLING 2010, NAACL HLT 2009, ENLG-09, MCLC-09, UCNLG-09, EMNLP-09, SIGDIAL-09, EMNLP-08, ACL-08: HLT, MCLC-08, UCNLG-07, AAAI-07, Workshop on Shared Tasks and Comparative Evaluation in Natural Language Generation (2007), ACL 2007 Workshop on Deep Linguistic Processing, ACL-06, EMNLP-06, EACL-06, ENLG-05, ACL-05 Workshop on Software, FLAIRS-04, AAAI-04, ACL-04, COLING-04

◇ **Reviewer for Journal**

*Computational Linguistics* (36 times, including two squibs), *Speech Communication* (thrice), *Journal of Artificial Intelligence Research* (twice), *Transactions of the ACL*, *Language Resources and Evaluation*, *Research on Language and Computation*, *ACM Transactions on Asian Language Information Processing* (twice), *Logic Journal of the IGPL*, *Computers and the Humanities*

◇ **Society Memberships**

Association for Computational Linguistics (ACL)	1988–present
Special Interest Group in Natural Language Generation (SIGGEN)	1995–present
Special Interest Group in Computational Semantics (SIGSEM)	2001–present
Special Interest Group in Discourse and Dialogue (SIGDIAL)	2005–present
Association for Computing Machinery (ACM)	1997–1999

◇ **News Interviews**

Interviewed by David Staley for <i>Voices of Excellence</i> podcast	May 2022
Interviewed by Samantha Schwartz for <i>CIO Dive</i>	July 2018
Interviewed by Ben Zimmer for <i>The Atlantic</i>	June 2018
Interviewed by Vova Zakharov for Smartcat.ai	Nov. 2017
Interviewed by MeiXing Dong for <a href="#">Robohub Podcast</a>	May 2017
Interviewed by <a href="#">Bastian Kaiser</a> , University of Dortmund	May 2017
Interviewed by Adrian Lobe for <a href="#">Frankfurter Allgemeine Zeitung</a>	Apr. 2015
Interviewed by Tom Simonite for <a href="#">MIT Technology Review</a>	Jan. 2015
Interviewed by Randall Stross for <a href="#">New York Times</a>	Nov. 2010

TEACHING

◇ **The Ohio State University**

Ling 7890.08: Clippers: A Computational Linguistics Discussion Group	Autumn, 2022
Ling 5803: Computational Semantics	Spring, 2022
Ling 7890.08: Clippers: A Computational Linguistics Discussion Group	Spring, 2022
Ling 7890.08: Clippers: A Computational Linguistics Discussion Group	Autumn, 2021
Ling 5802: Computational Linguistics II: Statistical NLP	Spring, 2020
Ling 7890.08: Clippers: A Computational Linguistics Discussion Group	Spring, 2020
Ling 7890.08: Clippers: A Computational Linguistics Discussion Group	Autumn, 2019
CSE 5522: Survey of Artificial Intelligence II: Advanced Topics	Spring, 2019
Ling 8800: Seminar on Advances in Computational Semantics	Spring, 2018
Ling 7890.08: Clippers: A Computational Linguistics Discussion Group	Spring, 2018
Ling 3802/3802H: Language and Computers (with Honors section)	Autumn, 2017
Ling 7890.08: Clippers: A Computational Linguistics Discussion Group	Autumn, 2017
Ling 3802/3802H: Language and Computers (with Honors section)	Spring, 2017
Ling 7890.08: Clippers: A Computational Linguistics Discussion Group	Spring, 2017
Ling 8800: Seminar on Recognizing and Generating Paraphrases	Autumn, 2016
Ling 3802: Language and Computers	Autumn, 2016
Ling 7890.08: Clippers: A Computational Linguistics Discussion Group	Autumn, 2016
Ling 5803: Computational Semantics	Spring, 2016
Ling 3802/3802H: Language and Computers (with Honors section)	Spring, 2016
Ling 7890.08: Clippers: A Computational Linguistics Discussion Group	Spring, 2016
Ling 3802: Language and Computers	Autumn, 2015

Ling 7890.08: Clippers: A Computational Linguistics Discussion Group	Autumn, 2015
Ling 3802/3802H: Language and Computers (with Honors section)	Spring, 2015
Ling 6001: Proseminar in Linguistics	Spring, 2015
Ling 3802: Language and Computers	Autumn, 2014
Ling 6001: Proseminar in Linguistics	Autumn, 2014
Ling 8800: Seminar on Lightly Supervised Grammar Induction	Spring, 2014
Ling 6001: Proseminar in Linguistics	Spring, 2014
Ling 3802/3802H: Language and Computers (with Honors section)	Autumn, 2013
Ling 6001: Proseminar in Linguistics	Autumn, 2013
Ling 684.03: Computational Semantics	Spring, 2012
Ling 800: Proseminar in Linguistics	Spring, 2012
Ling 684.02: Statistical NLP	Winter, 2012
Ling 800: Proseminar in Linguistics	Winter, 2012
Ling 800: Proseminar in Linguistics	Autumn, 2011
Ling H384: Language and Computers (Honors section)	Spring, 2011
Ling 795.04: Clippers: A Computational Linguistics Discussion Group	Spring, 2011
Ling 684.02: Statistical NLP	Winter, 2011
Ling 795.04: Clippers: A Computational Linguistics Discussion Group	Winter, 2011
Ling 795.04: Clippers: A Computational Linguistics Discussion Group	Autumn, 2010
Ling 684.02: Statistical NLP	Spring, 2010
Ling 800: Proseminar in Linguistics	Spring, 2010
Ling 800: Proseminar in Linguistics	Winter, 2010
Ling 684.03: Computational Semantics	Autumn, 2009
Ling 800: Proseminar in Linguistics	Autumn, 2009
Ling 884: Seminar on Statistical Parsing and Realization	Spring, 2009
Ling 795.04: Clippers: A Computational Linguistics Discussion Group	Spring, 2009
Ling H201: Introduction to Language in the Humanities (Honors section)	Winter, 2009
Ling 795.04: Clippers: A Computational Linguistics Discussion Group	Winter, 2009
Ling 684.03: Computational Semantics	Autumn, 2008
Ling 795.04: Clippers: A Computational Linguistics Discussion Group	Autumn, 2008
OSU Mini-Institute: Corpus-Based Computational Linguistics	Summer, 2008
Ling H384: Language and Computers (Honors section)	Spring, 2008
Ling 795.04: Clippers: A Computational Linguistics Discussion Group	Spring, 2008
Ling 884: Seminar on Generating and Interpreting Referring Expressions	Winter, 2008
Ling 795.04: Clippers: A Computational Linguistics Discussion Group	Winter, 2008
Ling 795.10: Computational Semantics	Autumn, 2007
Ling 795.04: Clippers: A Computational Linguistics Discussion Group	Autumn, 2007
Ling H384: Language and Computers (Honors section)	Spring, 2007
Ling 884: Seminar on Corpus-Based Grammar Engineering	Spring, 2007
Ling 795.04: Clippers: A Computational Linguistics Discussion Group	Spring, 2007
Ling 795.04: Clippers: A Computational Linguistics Discussion Group	Winter, 2007
Ling 795.10: Introduction to Computational Semantics	Autumn, 2006
Ling 795.04: Clippers: A Computational Linguistics Discussion Group	Autumn, 2006
Ling 795.10: Introduction to Natural Language Generation	Spring, 2006
Ling H384: Language and Computers (Honors section)	Spring, 2006
Ling 884: Seminar on Empirical Methods in NLG	Winter, 2006
◇ <b>University of Edinburgh</b>	
Dialogue and Natural Language Generation	Spring, 2003–2005
Gave guest lectures and helped students (each year).	
◇ <b>University of Pennsylvania</b>	
Introduction to Computer Programming	Fall-Spring, 1990–1991
Teaching Assistant and Recitation Instructor.	

ADVISING    ◇ **Postdoctoral Scholars**  
 AND  
 MENTORING



- Aleksandre Maskharashvili, Dept. Linguistics, OSU 2020–2022  
Xintong Li, Dept. Linguistics, OSU 2019–2021
- ◇ **Ph.D. Students**
- Alyssa Allen, Dept. Linguistics, OSU 2022–present  
Ashley Lewis, Dept. Linguistics, OSU 2019–present  
Willy Cheung, Dept. Linguistics, OSU 2015–present  
Peng-Hsuan Li, Dept. Linguistics, OSU 2020–2021  
David King, Dept. Linguistics, OSU 2014–2019  
Dennis Mehay, Dept. Linguistics, OSU 2011–2012  
David Howcroft, Dept. Linguistics, OSU 2010–2014  
Adriane Boyd, Dept. Linguistics, OSU 2008–2012  
Rajakrishnan Rajkumar, Dept. Linguistics, OSU 2008–2012  
Crystal Nakatsu, Dept. Linguistics, OSU 2006–present  
Stephen Boxwell, Dept. Linguistics, OSU 2006–2011  
Dominic Espinosa, Dept. Linguistics, OSU 2006–2014  
Scott Martin, Dept. Linguistics, OSU 2006–2011
- ◇ **M.Sc. Students**
- Reid Fu, Dept. Computer Science 2017–2018  
Supervised research on using neural networks for lexical category prediction in natural language generation.
- Ajda Gokcen, Dept. Linguistics, OSU 2015–2016  
Supervised TIE-funded work on word-level paraphrase alignment annotation, leading to LREC 2016 paper.
- Andrew Watts, Dept. Linguistics, OSU Spring, 2006  
Advised on research paper; exam committee member.
- Neide Franca Rocha, Dept. Linguistics, Edinburgh Summer, 2004  
Co-advised thesis project. Enrolled as a Ph.D. student at the University of Edinburgh.
- Rachel Baker, Dept. Linguistics, Edinburgh Summer, 2003  
Co-advised thesis project. Enrolled as a Ph.D. student at the Northwestern University.
- ◇ **Undergraduate Students, Honors**
- Henry Leonardi, Dept. Linguistics 2022–present  
Supervised research on paraphrasing for data augmentation in the virtual patient project using pretrained language models.
- Sarah Ewing, Dept. Linguistics, OSU 2017–2019  
Supervised investigation of domain-adapted automatic spelling correction for interpreting chatted questions in the virtual patient project. Received ASC Undergraduate Research Scholarship and presented in Denman Forum. Also supervising continuing work on paraphrasing with question templates for data augmentation in the virtual patient project, supported by an NSF REU Fellowship.
- Amad Hussain, Dept. Computer Science 2017–2019  
Supervised research on paraphrasing using neural machine translation for data augmentation in the virtual patient project.
- Ethan Hill, Dept. Computer Science, OSU 2014–2016  
Supervised methods for generating disambiguating paraphrases reported in honors thesis, and leading to LAW-X paper at ACL 2016; funded by NSF REU Supplement (Summer 2014).
- Johnsey Erdmann, Dept. Linguistics, OSU 2015–2016  
Supervised TIE-funded work on word-level paraphrase alignment annotation, leading to LREC 2016 paper.

Jonathan Barker, Dept. Linguistics, OSU Summer, 2011  
 Supervised genitive paraphrase generation and analysis; funded by NSF REU Supplement.

Shoshana Berleant, Dept. Linguistics, OSU Summer, 2009  
 Supervised data acquisition and analysis; funded by NSF REU Supplement.

◇ **Mentoring**

Amad Hussain, Dept. Computer Science 2022–present  
 Supervised research on paraphrasing for data augmentation in the virtual patient project using pretrained language models (jointly with Eric Fosler-Lussier).

Symon Stevens-Guille, Ph.D. Student, Dept. Linguistics, OSU 2020–present  
 Supervised work on discourse structure in neural NLG.

Lingbo Mo, Ph.D. Student, CSE Dept., OSU 2019–present  
 Supervised work on interactive semantic parsing (jointly with Huan Sun).

Jordan Needle, Ph.D. Student, Dept. Linguistics, OSU 2017–2018  
 Collaborated on implementing dynamic continuized combinatory categorial grammar and investigating its connections with dynamic semantics in linear categorial grammar.

Lifeng Jin, Ph.D. Student, Dept. Linguistics, OSU 2016–2019  
 Provided guidance on question matching for virtual patient dialogue system.

David Howcroft, Dept. Comp. Ling. & Phon., Univ. Saarland 2014–2016  
 Provided guidance on inducing rules for sentence planning in generation.

Manjuan Duan, Ph.D. Student, Dept. Linguistics, OSU 2013–2017  
 Provided guidance on methods for avoiding ambiguity in generation and generating disambiguating paraphrases.

Evan Jaffe, Ph.D. Student, Dept. Linguistics, OSU 2013–2018  
 Provided guidance on question matching for virtual patient dialogue system.

Mary Ellen Foster, Ph.D. Student, Informatics, Edinburgh 2002–2005  
 Provided guidance on development of COMIC multi-modal generator. Became a postdoctoral researcher at Heriot-Watt University, currently junior faculty at University of Glasgow.

Carsten Brockmann, Ph.D. Student, Informatics, University of Edinburgh 2003–2005  
 Provided guidance on CrAg project.

Ted Caldwell, CoGenTex, Inc. 1995–2002  
 Provided guidance on SoftDoc and Definition Builder projects. Became CoGenTex's principal application developer and a PI on an NSF Phase I SBIR.

Benoit Lavoie, CoGenTex, Inc. 2000-2002  
 Provided guidance on RIPTIDES project.

UNIVERSITY ◇ **University Committees**

SERVICE University Senate 2022– present  
 Faculty Advisory Council 2016–2018

◇ **Departmental Committees**

Speakers 2022–present

Awards 2022–present

Semantics & Pragmatics Search (Chair) 2021–2022

Graduate Studies Committee 2021–2022

Graduate Studies Committee (Chair) 2018–2020

Laboratory and Computing 2019–2020

Web Committee (Chair) 2015–2018

Peer Review of Teaching (Chair) 2014–2018

Laboratory and Computing 2015–2018

Targeted Investment in Excellence 2014–2016

Laboratory and Computing (Chair)	2013–2015
Ling 3802 Resource Person	2013–2015
Comp Ling Search (Chair)	2011–2012
Ling 384 Resource Person	2009–2012
Speakers (Chair)	2009–2011
Laboratory and Computing (Chair)	2006–2009
Ling 384 Review (Chair)	2008–2009
Comp Ling Search	2008–2009
Awards	2006–2008
Semantics Search	2005–2006
Chair Search	2005–2006
Laboratory and Computing	2005–2006
◇ <b>Dissertation Committees</b>	
Nathan Rasmussen	2020–2022
Prashant Serai	2020–2021
Evan Jaffe	2020–2021
Lifeng Jin	2019–2020
Denis Newman-Griffis	2019–2020
Adam Stiff	2019–2020
Joo-Kyung Kim	2017
Dominic Espinosa	2011–2014
Scott Martin	2011–2013
Vedrana Mihaliceck	2011–2012
Stephen Boxwell	2011
DJ Hovermale	2011
Rajakrishnan Rajkumar	2010–2012
Dennis Mehay	2010–2012
Crystal Nakatsu	2009–present
Tim Weale	2009–2010
Adriane Boyd	2007–2012
Ilana Heintz	2007–2010
Jianguo Li	2007–2008
Kirk Baker	2006–2008
Jirka Hana	2006–2007
Laura Stoia	2006–2007
◇ <b>Candidacy Exams</b>	
Nan-Jiang Jiang	2022
Prashant Serai	2020
Evan Jaffe	2020
Nathan Rasmussen	2020
Adam Stiff	2019
Lifeng Jin	2019
Denis Newman-Griffis	2017
Jonathan Dehdari	2012
Stephen Boxwell	2011
Dominic Espinosa	2011
DJ Hovermale	2011
Scott Martin	2011
Rajakrishnan Rajkumar	2010
Dennis Mehay	2010
Crystal Nakatsu	2009
Tim Weale	2009
Adriane Boyd	2007

Ilana Heintz	2007
Jianguo Li	2007
Laura Stoia	2006
Kirk Baker	2006
◇ <b>Graduate Faculty Representative</b>	
Ashutosh Pandey (Dissertation Exam), Computer Science & Engineering	2022
William Balla-Johnson (Dissertation Exam), Spanish & Portuguese	2020
Siyuan Ma (Dissertation Exam), Computer Science & Engineering	2019
Naser Sedaghati (Dissertation Exam), Computer Science & Engineering	2015
Stephen Luft (Dissertation Exam), East Asian	2013
Takeki Sunakawa (Dissertation Exam), Economics	2012
Laurie Urraro (Dissertation Exam), Spanish & Portuguese	2011
Sitaram Asur (Dissertation Exam), Computer Science & Engineering	2008
Unislawa Wszolek (Dissertation Exam), Political Science	2007
◇ <b>Graduate Examination Committees</b>	
Nanjiang Jiang (2 <sup>nd</sup> qualifying paper)	2022
Ashley Lewis (2 <sup>nd</sup> qualifying paper)	2022–present
Christian Clark (1 <sup>st</sup> qualifying paper)	2022
Ashley Lewis (1 <sup>st</sup> qualifying paper)	2020–2021
Nanjiang Jiang (1 <sup>st</sup> qualifying paper)	2019–2020
William Thomas (1 <sup>st</sup> qualifying paper)	2019
Lifeng Jin (2 <sup>nd</sup> qualifying paper)	2017–2018
David King (2 <sup>nd</sup> qualifying paper)	2017–2018
Nathan Rasmussen (2 <sup>nd</sup> qualifying paper)	2017–2018
David King (1 <sup>st</sup> qualifying paper)	2016–2017
Manjuan Duan (2 <sup>nd</sup> qualifying paper)	2015–2016
Evan Jaffe (2 <sup>nd</sup> qualifying paper)	2015–2016
Nathan Rasmussen (1 <sup>st</sup> qualifying paper)	2014–2015
David Howcroft (1 <sup>st</sup> qualifying paper)	2012–2013
Michelle Dionisio (1 <sup>st</sup> qualifying paper)	2010–2011
Jon Dehdari (2 <sup>nd</sup> qualifying paper)	2010–2011
Rajakrishnan Rajkumar (2 <sup>nd</sup> qualifying paper)	2008–2010
Stephen Boxwell (2 <sup>nd</sup> qualifying paper)	2009–2010
Dominic Espinosa (2 <sup>nd</sup> qualifying paper)	2009–2010
Scott Martin (2 <sup>nd</sup> qualifying paper)	2009–2010
Jon Dehdari (1 <sup>st</sup> qualifying paper)	2009–2010
Dennis Mehay (3 <sup>rd</sup> year paper)	2007–2008
Stephen Boxwell (2 <sup>nd</sup> year paper)	2007–2008
Dominic Espinosa (2 <sup>nd</sup> year paper)	2007–2008
Scott Martin (2 <sup>nd</sup> year paper)	2007–2008
Adriane Boyd (3 <sup>rd</sup> year paper)	2006–2007
Rajakrishnan Rajkumar (2 <sup>nd</sup> year paper)	2006–2007
Dennis Mehay (2 <sup>nd</sup> year paper)	2006–2007
Jianguo Li (3 <sup>rd</sup> year paper)	2005–2006
Crystal Nakatsu (3 <sup>rd</sup> year paper)	2005–2006

## Publications

- PEER-REVIEWED JOURNAL ARTICLES
- Maicher, K., Stiff, A., Scholl, M., White, M., Fosler-Lussier, E., Schuler, W., Serai, P., Sunder, V., Forrestal, H., Mendella, L., Adib, M., Bratton, C., Lee, K., Danforth, D.R. 2022. Artificial Intelligence in Virtual Standardized Patients: Combining Natural Language Understanding and Rule Based Dialogue management to improve conversational fidelity. *Medical Teacher*, DOI: 10.1080/0142159X.2022.2130216.
- Adam Stiff, Lifeng Jin, Michael White, Evan Jaffe, Eric Fosler-Lussier, William Schuler, Laura Zimmerman and Douglas Danforth. 2022. A Prospective Study of Combining CNNs and Pattern Matching for Question Interpretation in a Virtual Patient Dialogue System. *Natural Language Engineering*, 1–42.
- Kellen R. Maicher, Laura Zimmerman, Bruce Wilcox, Beth Liston, Holly Cronau, Allison Macerollo, Lifeng Jin, Evan Jaffe, Michael White, Eric Fosler-Lussier, William Schuler, David Way, Douglas R. Danforth. 2019. Using Virtual Standardized Patients to Accurately Assess Information Gathering Skills in Medical Students. *Medical Teacher*, DOI: 10.1080/0142159X.2019.1616683.
- Rajakrishnan Rajkumar, Marten van Schijndel, Michael White and William Schuler. 2016. Investigating Locality Effects and Surprisal in Written English Syntactic Choice Phenomena. *Cognition*, 155:204–232.
- Rajakrishnan Rajkumar and Michael White. 2014. Better Surface Realization through Psycholinguistics. *Language and Linguistics Compass*, 8(10):428–448.
- Crystal Nakatsu and Michael White. 2010. Generating with Discourse Combinatory Categorical Grammar. *Linguistic Issues in Language Technology*, 4(1):1–62.
- Michael White, Robert A. J. Clark and Johanna D. Moore. 2010. Generating tailored, comparative descriptions with contextually appropriate intonation. *Computational Linguistics*, 36(2):159–201.
- Michael White. 2006. Efficient Realization of Coordinate Structures in Combinatory Categorical Grammar. *Research on Language & Computation*, 4(1):39–75.
- Sandro Zucchi and Michael White. 2001. Twigs, sequences and the temporal constitution of predicates. *Linguistics and Philosophy*, 24(2):223–270.
- EDITED COLLECTIONS
- Michael White, Anusha Balakrishnan, Vera Demberg, Chandra Khatri, Abhinav Rastogi, Donia Scott, Marilyn Walker. 2019. *Proceedings of the Workshop on Discourse Structure in Neural NLG*.
- Annie Louis, Michael Roth, Bonnie Webber, Michael White and Luke Zettlemoyer. 2016. *Proceedings of the Workshop on Uphill Battles in Language Processing: Scaling Early Achievements to Robust Methods*.
- Michael White, Crystal Nakatsu and David McDonald. 2008. *Proceedings of the Fifth International International Natural Language Generation Conference*.
- Robert Dale and Michael White. 2007. *Report from the Workshop on Shared Tasks and Comparative Evaluation in Natural Language Generation*.
- Robert Dale and Michael White. 2007. *Position Papers of the Workshop on Shared Tasks and Comparative Evaluation in Natural Language Generation*.
- CHAPTERS IN EDITED BOOKS
- Michael White, Rajakrishnan Rajkumar, Kiwako Ito, and Shari R. Speer. 2014. Eye tracking for the online evaluation of prosody in speech synthesis. Amanda Stent and Srinivas Bangalore (eds.), *Natural Language Generation in Interactive Systems*, Chapter 12, pages 281–301. Cambridge University Press.
- PEER-REVIEWED PAPERS IN CONFERENCE PROCEEDINGS
- Symon J. Stevens-Guille, Aleksandre Maskharashvili, Xintong Li and Michael White. 2022. Generating Discourse Connectives with Pre-trained Language Models: Conditioning on Discourse Relations Helps Reconstruct the PDTB. In *Proc. SIGDIAL-22*.

- Lingbo Mo, Ashley Lewis, Huan Sun and Michael White. 2022. Towards Transparent Interactive Semantic Parsing via Step-by-Step Correction. In *Findings ACL-22*.
- Soumya Batra, Shashank Jain, Peyman Heidari, Ankit Arun, Catharine Youngs, Xintong Li, Pinar Donmez, Shawn Mei, Shiun-Zu Kuo, Vikas Bhardwaj, Anuj Kumar and Michael White. 2021. Building Adaptive Acceptability Classifiers for Neural NLG. In *Proc. EMNLP-21*.
- Aleksandre Maskharashvili, Symon Stevens-Guille, Xintong Li and Michael White. 2021. Neural Methodius Revisited: Do Discourse Relations Help with Pre-Trained Models Too? In *Proc. INLG-21*.
- Xintong Li, Symon Stevens-Guille, Aleksandre Maskharashvili and Michael White. 2021. Self-Training for Compositional Neural NLG in Task-Oriented Dialogue. In *Proc. INLG-21*.
- Peyman Heidari, Arash Einolghozati, Shashank Jain, Soumya Batra, Lee Callender, Ankit Arun, Shawn Mei, Sonal Gupta, Pinar Donmez, Vikas Bhardwaj, Anuj Kumar and Michael White. 2021. Getting to Production with Few-shot Natural Language Generation Models. In *Proc. SIGDIAL-21*.
- Symon Stevens-Guille, Aleksandre Maskharashvili, Amy Isard, Xintong Li and Michael White. 2020. Neural NLG for Methodius: From RST Meaning Representations to Texts. *Proc. of INLG-20*.
- Ankit Arun, Soumya Batra, Vikas Bhardwaj, Ashwini Challa, Pinar Donmez, Peyman Heidari, Hakan Inan, Shashank Jain, Anuj Kumar, Shawn Mei, Karthik Mohan, Michael White. 2020. Best Practices for Data-Efficient Modeling in NLG: How to Train Production-Ready Neural Models with Less Data. *Proc. of COLING-20*.
- Douglas R. Danforth, Adam Stiff, Kellen R. Maicher, Marisa Scholl, Michael White, Eric Fosler-Lussier and William Schuler. 2020. Artificial Intelligence in Virtual Standardized Patients: Combining Natural Language Understanding and Rule Based Dialogue Management to Improve Conversational Fidelity. *Proc. of the 20th International Meeting on Simulation in Healthcare (IMSH 2020)*.
- Jinfeng Rao, Kartikeya Upasani, Anusha Balakrishnan, Michael White, Anuj Kumar and Rajen Subba. 2019. A Tree-to-Sequence Model for Neural NLG in Task-Oriented Dialog. In *Proc. of INLG-19*.
- Anusha Balakrishnan, Jinfeng Rao, Kartikeya Upasani, Michael White and Rajen Subba. 2019. Constrained Decoding for Neural NLG from Compositional Representations in Task-Oriented Dialogue. In *Proc. of ACL-19*.
- Michael White. 2019. Evaluation Order Effects in Dynamic Continued CCG: From Negative Polarity Items to Balanced Punctuation. In *Proc. of the Society for Computation in Linguistics*.
- Reid Fu and Michael White. 2018. Neural Hypertagging with CCG. In *Proc. INLG-18*.
- Ajda Gokcen, Ethan Hill and Michael White. 2018. Madly Ambiguous: A Game for Learning about Structural Ambiguity and Why It’s Hard for Computers. In *Proc. of the 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies*.
- David L. King and Michael White. 2016. Enhancing PTB Universal Dependencies for Grammar-Based Surface Realization. In *Proc. INLG-16*.
- Ajda Gokcen, Evan Jaffe, Johnsey Erdmann, Michael White and Douglas Danforth. 2016. A Corpus of Word-Aligned Asked and Anticipated Questions in a Virtual Patient Dialogue System. In *Proc. LREC-16*.
- Michael White. 2014. Towards Surface Realization with CCGs Induced from Dependencies. In *Proc. INLG-14*.

- Manjuan Duan and Michael White. 2014. That's Not What I Meant! Using Parsers to Avoid Structural Ambiguities in Generated Text. In *Proc. of ACL-2014*.
- Kapil Thadani, Scott Martin, and Michael White. 2012. A joint phrasal and dependency model for paraphrase alignment. In *Proc. of COLING-2012*.
- Michael White and Rajakrishnan Rajkumar. 2012. Minimal dependency length in realization ranking. In *Proc. of EMNLP-12*.
- Michael White. 2012. Shared Task Proposal: Syntactic Paraphrase Ranking. In *Proc. of the 7th International Conference on Natural Language Generation (INLG-12)*.
- Dominic Espinosa, Rajakrishnan Rajkumar, Michael White, and Shoshana Berleant. 2010. Further meta-evaluation of broad coverage surface realization. In *Proc. of EMNLP-10*.
- Dominic Espinosa, Michael White, Eric Fosler-Lussier and Chris Brew. 2010. Machine Learning for Text Selection with Expressive Unit-Selection Voices. In *Proc. of INTERSPEECH-10*.
- Rajakrishnan Rajkumar and Michael White. 2010. Designing Agreement Features for Realization Ranking. In *Proc. of COLING-10*.
- Michael White, Rajakrishnan Rajkumar, Kiwako Ito, and Shari Speer. 2009. Eye tracking for the online evaluation of prosody in speech synthesis: Not so fast! In *Proc. of INTERSPEECH-09*.
- Michael White and Rajakrishnan Rajkumar. 2009. Perceptron reranking for CCG realization. In *Proc. of EMNLP-09*.
- Rajakrishnan Rajkumar, Michael White and Dominic Espinosa. 2009. Exploiting named entity classes in CCG surface realization. In *Proc. of NAACL-HLT 2009 Short Papers*.
- Dominic Espinosa, Michael White and Dennis Mehay. 2008. Hypertagging: Supertagging for Surface Realization with CCG. In *Proc. ACL-08: HLT*.
- Stephen Boxwell and Michael White. 2008. Projecting Propbank Roles onto the CCG-bank. In *Proc. of the Sixth International Conference on Language Resources and Evaluation (LREC-08)*.
- Michael White. 2006. CCG Chart Realization from Disjunctive Inputs. In *Proc. of the 4th International Conference on Natural Language Generation (INLG-06)*.
- Crystal Nakatsu and Michael White. 2006. Learning to Say It Well: Reranking Realizations by Predicted Synthesis Quality. In *Proc. COLING-ACL-06*.
- Michael White, Mary Ellen Foster, Jon Oberlander, and Ash Brown. 2005. Using facial feedback to enhance turn-taking in a multimodal dialogue system. In *Proc. of the 11th International Conference on Human-Computer Interaction (HCI-05)*.
- Johanna Moore, Mary Ellen Foster, Oliver Lemon, and Michael White. 2004. Generating tailored, comparative descriptions in spoken dialogue. In *Proc. of the 17th International FLAIRS Conference (FLAIRS-04)*.
- Michael White. 2004. Reining in CCG Chart Realization. In *Proc. of the 3rd International Conference on Natural Language Generation (INLG-04)*.
- Michael White, Claire Cardie, Vincent Ng, and Daryl McCullough. 2002. Detecting discrepancies in numeric estimates using multidocument hypertext summaries. In *Proc. of the Second International Conference on Human Language Technology Research (HLT-02)*.
- Michael White, Tanya Korelsky, Claire Cardie, Vincent Ng, Kiri Wagstaff, and David Pierce. 2001. Multi-document summarization via information extraction. In *Proc. of the First International Conference on Human Language Technology Research (HLT-01)*.
- Daryl McCullough, Tanya Korelsky, and Michael White. 1998. Information management for release-based software evolution using EMMA. In *Proc. of the 10th International Conference on Software Engineering & Knowledge Engineering (SEKE-98)*.

David Caldwell and Michael White. 1997. CogentHelp: A tool for authoring dynamically generated help for Java GUIs. In *Proc. of the 15th Annual International Conference on Computer Documentation (SIGDOC-97)*.

Michael White and David Caldwell. 1997. CogentHelp: NLG meets SE in a tool for authoring dynamically generated on-line help. In *Proc. of the Fifth Conference on Applied Natural Language Processing (ANLP-97)*.

Sandro Zucchi and Michael White. 1996. Twigs, sequences and the temporal constitution of predicates. In *Proc. of Semantics and Linguistic Theory (SALT) VI*.

Michael White. 1993. Delimitedness and trajectory-of-motion events. In *Proc. of EACL-93*.

Barbara Di Eugenio and Michael White. 1992. On the interpretation of natural language instructions. In *Proc. of COLING-92*.

Michael White. 1992. Conceptual structures and CCG: Linking theory and incorporated argument adjuncts. In *Proc. of COLING-92*.

PEER-  
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PAPERS IN  
WORKSHOP  
PROCEEDINGS

Lingbo Mo, Ashley Lewis, Huan Sun and Michael White. 2022. INSPIRED: A Large-Scale Dataset and Simulation Framework for Exploring Interactive Learning in Knowledge-Based Question Answering. In *Proc. of the Interactive Learning for Natural Language Processing Workshop at NeurIPS 2022*.

Shreyan Bakshi, Soumya Batra, Peyman Heidari, Ankit Arun, Shashank Jain and Michael White. 2021. Structure-to-Text Generation with Self-Training, Acceptability Classifiers and Context-Conditioning for the GEM Shared Task. In *Proc. of the 1st Workshop on Natural Language Generation, Evaluation, and Metrics (GEM 2021) at ACL-21*.

Xintong Li, Aleksandre Maskharashvili, Symon Jory Stevens-Guille and Michael White. 2020. Leveraging Large Pretrained Models for WebNLG 2020. In *Proc. WebNLG Workshop 2020*.

Kartikeya Upasani, David King, Jinfeng Rao, Anusha Balakrishnan and Michael White. 2019. The OSU/Facebook Realizer for SRST 2019: Seq2Seq Inflection and Serialized Tree2Tree Linearization. In *Proc. of the 2nd Workshop on Multilingual Surface Realisation (MSR 2019)*.

David L. King and Michael White. 2018. The OSU Realizer for SRST '18: Neural Sequence-to-Sequence Inflection and Incremental Locality-Based Linearization. In *Proc. of the Workshop on Multilingual Surface Realization at ACL-18*.

Lifeng Jin, David King, Amad Hussein, Michael White and Douglas Danforth. 2018. Using Paraphrasing and Memory-Augmented Models to Combat Data Sparsity in Question Interpretation with a Virtual Patient Dialogue System. In *Proc. of the 13th Workshop on Innovative Use of NLP for Building Educational Applications at NAACL HLT 2018*.

Michael White, Simon Charlow, Jordan Needle and Dylan Bumford. 2017. Parsing with Dynamic Continuized CCG. In *Proc. of the 13th International Workshop on Tree Adjoining Grammars and Related Formalisms (TAG+13)*.

Michael White, Manjuan Duan and David L. King. 2017. A Simple Method for Clarifying Sentences with Coordination Ambiguities. In *Proc. of the Explainable Computational Intelligence Workshop at INLG-17*.

Lifeng Jin, Michael White, Evan Jaffe, Laura Zimmerman and Douglas Danforth. 2017. Combining CNNs and Pattern Matching for Question Interpretation in a Virtual Patient Dialogue System. In *Proc. of the 12th Workshop on Innovative Use of NLP for Building Educational Applications at EMNLP 2017*.

Taylor Mahler, Willy Cheung, Micha Elsner, David King, Marie-Catherine de Marneffe, Cory Shain, Symon Stevens-Guille and Michael White. 2017. Breaking NLP: Using Morphosyntax, Semantics, Pragmatics and World Knowledge to Fool Sentiment Analysis



- Systems. In *Proc. of the Workshop on Building Linguistically Generalizable NLP Systems at EMNLP-17*.
- Manjuan Duan, Ethan Hill and Michael White. 2016. Generating Disambiguating Paraphrases for Structurally Ambiguous Sentences In *Proc. of the 10th Linguistic Annotation Workshop (LAW-X) at ACL 2016*.
- Michael White and David M. Howcroft. 2015. Inducing Clause-Combining Rules: A Case Study with the SPaRKY Restaurant Corpus. In *Proc. of the 15th European Workshop on Natural Language Generation (ENLG-15)*.
- Evan Jaffe, Michael White, William Schuler, Eric Fosler-Lussier, Alex Rosenfeld and Douglas Danforth. 2015. Interpreting Questions with a Log-Linear Ranking Model in a Virtual Patient Dialogue System. In *Proc. of the of the 10th Workshop on Innovative Use of NLP for Building Educational Applications (BEA10 at NAACL HLT 2015)*.
- David Howcroft, Crystal Nakatsu and Michael White. 2013. Enhancing the Expression of Contrast in the SPaRKY Restaurant Corpus. In *Proc. of the 14th European Workshop on Natural Language Generation (ENLG-13)*.
- Dennis N. Mehay and Michael White. 2012. Shallow and Deep Paraphrasing for Improved Machine Translation Parameter Optimization. In *Proc. of the AMTA 2012 Workshop on Monolingual Machine Translation (MONOMT 2012)*.
- Michael White. 2011. Glue Rules for Robust Chart Realization. In *Proc. of the 13th European Workshop on Natural Language Generation (ENLG-11)*.
- Rajakrishnan Rajkumar and Michael White. 2011. Linguistically Motivated Complementizer Choice in Surface Realization. In *Proc. of the EMNLP-11 Workshop on Using Corpora in NLG*.
- Scott Martin and Michael White. 2011. Creating Disjunctive Logical Forms from Aligned Sentences for Grammar-Based Paraphrase Generation. In *Proc. of the ACL-11 Workshop on Monolingual Text-to-Text Generation*.
- Rajakrishnan Rajkumar, Michael White, Shari R. Speer, and Kiwako Ito. 2010. Evaluating prosody in synthetic speech with online (eye-tracking) and offline (rating) methods. In *Proc. of the 7th Speech Synthesis Workshop*.
- Scott Martin, Rajakrishnan Rajkumar and Michael White. 2009. Grammar Engineering for CCG using Ant and XSLT. In *Proc. of the NAACL HLT 2009 Workshop on Software Engineering, Testing and Quality Assurance for Natural Language Processing (SETQA-NLP 2009)*.
- Michael White and Rajakrishnan Rajkumar. 2008. A More Precise Analysis of Punctuation for Broad-Coverage Surface Realization with CCG. In *Proc. of the Workshop on Grammar Engineering Across Frameworks (GEAF-08)*.
- Vasile Rus, Arthur C. Graesser, Amanda Stent, Marilyn Walker and Michael White. 2007. Text-to-Text Generation. In *Report from the Workshop on Shared Tasks and Comparative Evaluation in Natural Language Generation*.
- Michael White, Rajakrishnan Rajkumar and Scott Martin. 2007. Towards Broad Coverage Surface Realization with CCG. In *Proc. of the Workshop on Using Corpora for NLG: Language Generation and Machine Translation (UCNLG+MT)*.
- Mary Ellen Foster and Michael White. 2007. Avoiding Repetition in Generated Text. In *Proc. of the 11th European Workshop on Natural Language Generation*.
- Carsten Brockmann, Amy Isard, Jon Oberlander, and Michael White. 2005. Modelling alignment for affective dialogue. In *Proc. UM-05 Workshop on Adapting the Interaction Style to Affective Factors*.
- Mary Ellen Foster and Michael White. 2005. Assessing the impact of adaptive generation in the COMIC multimodal dialogue system. In *Proc. IJCAI-05 Workshop on Knowledge and Representation in Practical Dialogue Systems*.

Michael White. 2005. Designing an extensible API for integrating language modeling and realization. In *Proc. ACL-05 Workshop on Software*.

Mary Ellen Foster and Michael White. 2004. Techniques for Text Planning with XSLT. In *Proc. 4th Workshop on NLP and XML*.

Rachel Baker, Robert A. J. Clark, and Michael White. 2004. Synthesising contextually appropriate intonation in limited domains. In *Proc. of the 5th ISCA Speech Synthesis Workshop*.

Amy Isard, Carsten Brockmann, Jon Oberlander, and Michael White. 2003. The critical agent dialogue (crag) project. In *Proc. of the 7th Workshop on the Semantics and Pragmatics of Dialogue (DiaBruck-03)*.

Michael White and Jason Baldridge. 2003. Adapting Chart Realization to CCG. In *Proc. of the 9th European Workshop on Natural Language Generation*.

Michael White and Claire Cardie. 2002. Selecting sentences for multidocument summaries using randomized local search. In *Proc. of ACL-02 Workshop on Automatic Summarization*.

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Benoit Lavoie, Michael White, and Tanya Korelsky. 2001. Inducing lexico-structural transfer rules from parsed bi-texts. In *Proc. of the ACL-01 Workshop on Data-Driven Machine Translation*.

Michael White, Claire Cardie, Vincent Ng, Kiri Wagstaff, and Daryl McCullough. 2001. Detecting discrepancies and improving intelligibility: Two preliminary evaluations of RIP-TIDES. In *Proc. of the DARPA/NIST sponsored DUC 2001 Meeting on Summary Evaluation*.

Michael White, Claire Cardie, Chung hye Han, Nari Kim, Benoit Lavoie, Martha Palmer, Owen Rambow, and Juntae Yoon. 2000. Towards translingual information access using portable information extraction. In *Proc. of the ANLP/NAACL-00 Workshop on Embedded Machine Translation Systems*.

Michael White and Ted Caldwell. 1998. Exemplars: A practical, extensible framework for dynamic text generation. In *Proc. of the Ninth International Workshop on Natural Language Generation*.

Michael White. 1998. Designing dynamic hypertext. In *Proc. of the 2nd Workshop on Adaptive Hypertext and Hypermedia (HYPERTEXT-98)*.

Michael White. 1995. Presenting punctuation. In *Proc. of the 5th European Workshop on Natural Language Generation*.

Michael White. 1995. A computational approach to aspectual composition. In *Proc. of the 5th Toulouse International Workshop on Time, Space and Movement*.

TECHNICAL  
REPORTS

Anja Belz, Michael White, Dominic Espinosa, Eric Kow, Deirdre Hogan and Amanda Stent. 2011. The First Surface Realisation Shared Task: Overview and Evaluation Results. In *Proc. of the 13th European Workshop on Natural Language Generation*.

Rajakrishnan Rajkumar, Dominic Espinosa and Michael White. 2011. The OSU System for Surface Realization at Generation Challenges 2011. In *Proc. of the 13th European Workshop on Natural Language Generation*.

SCHOLARLY  
PRESENTA-  
TIONS

Aleksandre Maskharashvili, Symon Stevens-Guille, Xintong Li and Michael White. 2021. Neural Methodius Revisited: Do Discourse Relations Help with Pre-Trained Models Too? West Coast NLP presentation.

Xintong Li and Michael White. 2020. Self-Training for Compositional Neural NLG. West Coast NLP presentation.

- Anusha Balakrishnan, Jinfeng Rao, Kartikeya Upasani, Michael White and Rajen Subba. 2019. Constrained Decoding and Query Attention for Neural NLG in Task-Oriented Dialogue. Workshop on Discourse Structure in Neural NLG, Tokyo, November 1.
- Sarah Ewing, Amad Hussain, David L. King and Michael White. 2019. Ranking Automatic Paraphrases with Contextualized Word Embeddings. Midwest Speech and Language Days 2019, Chicago, May 3.
- Michael White, Evan Jaffe, Laura Zimmerman and Douglas Danforth. 2017. Combining Logistic Regression and Pattern Matching in a Virtual Patient Dialogue System. Midwest Speech and Language Days 2017, Chicago, May 5.
- Michael White. 2016. Implementing Dynamic Continuized Combinatory Categorical Grammar. Midwest Speech and Language Days 2016, Bloomington, IN, May 13.
- Ethan Hill, Manjuan Duan and Michael White. 2015. Generating Disambiguating Paraphrases for Use in Crowd-Sourced Judgments of Meaning. Midwest Speech and Language Days 2015, Chicago, May 8.
- Anja Belz, Michael White, Josef van Genabith, Deirdre Hogan, and Amanda Stent. 2010. Finding Common Ground: Towards a Surface Realisation Shared Task. Generation Challenges 2010 at INLG-10, Trim, Ireland, July 8.
- Michael White, Chris Brew, Dominic Espinosa and Eric Fosler-Lussier. 2008. Building Expressive Synthetic Voices for Conversational Systems. Buckeye Language Network Fall Symposium, Columbus, October 4.
- Michael White, Chris Brew, Julie McGory, Shari Speer. 2007. Towards Expressive Synthetic Voices for Conversational Systems. Prosody Fest, Columbus, June 12.
- Mary Ellen Foster, Michael White, Andrea Setzer, and Roberta Catizone. 2005. Generating multimodal output in the COMIC dialogue system. ACL-05 Demo Session. (Peer-reviewed.)
- Michael White. 2004. COMIC T24 Phase 3 Study. COMIC/FASIL Workshop, London.
- Michael White. 2003. OpenCCG Realizer Demo. Edinburgh-Stanford Link Kick-off Event, Edinburgh.