



- **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”	

- ◇ **Editor-in-Chief**  
ACL Rolling Review 2024–present
- ◇ **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 (10) 2006–2024  
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
- ◇ **External Thesis Examiner**  
University of Aberdeen, Francesco Moramarco PhD thesis 2024
- ◇ **Program Committee Chair**  
INLG 2008
- ◇ **Senior Area Chair**  
NAACL 2022, ACL 2021, EMNLP 2019
- ◇ **Area Chair / Senior Program Committee Member**  
ACL Rolling Review 2021–2024, NAACL 2024, INLG 2024, GEM 2023, SIGDIAL 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)**  
EMNLP Industry Track 2024, SIGDIAL 2024, BEA 2024, INLG 2023, BEA 2023, 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), *Information Processing and Management, Computer Methods and Programs in Biomedicine, 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 3802: Language and Computers	Autumn, 2024
Ling 7890.08: Clippers: A Computational Linguistics Discussion Group	Autumn, 2024
Ling 3802: Language and Computers	Spring, 2024
Ling 7890.08: Clippers: A Computational Linguistics Discussion Group	Spring, 2024
Ling 3802: Language and Computers	Autumn, 2023
Ling 7890.08: Clippers: A Computational Linguistics Discussion Group	Autumn, 2023
Ling 8800: Seminar on Neural Language Generation	Spring, 2023
Ling 7890.08: Clippers: A Computational Linguistics Discussion Group	Spring, 2023
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	◇ <b>Postdoctoral Scholars</b>	
AND	Aleksandre Maskharashvili, Dept. Linguistics, OSU	2020–2022
MENTORING	Xintong Li, Dept. Linguistics, OSU	2019–2021
	◇ <b>Ph.D. Students</b>	
	Tomiris Kaumenova Dept. Linguistics, OSU	2023–present
	Yi-Chien Lin, Dept. Linguistics, OSU	2023–present
	Alyssa Allen, Dept. Linguistics, OSU	2022–present
	Ashley Lewis, Dept. Linguistics, OSU	2019–present
	Willy Cheung, Dept. Linguistics, OSU	2015–2022
	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
	◇ <b>M.Sc. Students</b>	
	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.	
	◇ <b>Undergraduate Students, Honors</b>	
	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 2019–2024  
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. Provided guidance on RIPTIDES project.	2000-2002
UNIVERSITY SERVICE	◇ <b>University Committees</b> Arts & Sciences Senate Faculty Advisory Council	2022–present 2016–2018
	◇ <b>Departmental Service/Committees</b> Vice-Chair Awards (Chair) Advancement Awards Speakers Semantics & Pragmatics Search (Chair) Graduate Studies Committee Graduate Studies Committee (Chair) Laboratory and Computing Web Committee (Chair) Peer Review of Teaching (Chair) Laboratory and Computing Targeted Investment in Excellence Laboratory and Computing (Chair) Ling 3802 Resource Person Comp Ling Search (Chair) Ling 384 Resource Person Speakers (Chair) Laboratory and Computing (Chair) Ling 384 Review (Chair) Comp Ling Search Awards Semantics Search Chair Search Laboratory and Computing	2023–present 2024–present 2024–present 2022–2024 2022–2023 2021–2022 2021–2022 2018–2020 2019–2020 2015–2018 2014–2018 2015–2018 2014–2016 2013–2015 2013–2015 2011–2012 2009–2012 2009–2011 2006–2009 2008–2009 2008–2009 2006–2008 2005–2006 2005–2006 2005–2006
	◇ <b>Dissertation Committees</b> Lingbo Mo Byung-Doh Oh Nan-Jiang Jiang Shuaichen Chang Nathan Rasmussen Prashant Serai Evan Jaffe Lifeng Jin Denis Newman-Griffis Adam Stiff Joo-Kyung Kim Dominic Espinosa Scott Martin Vedrana Mihaliceck Stephen Boxwell DJ Hovermale Rajakrishnan Rajkumar Dennis Mehay Crystal Nakatsu Tim Weale	2024 2023–2024 2022–2023 2022–2023 2020–2022 2020–2021 2020–2021 2019–2020 2019–2020 2019–2020 2017 2011–2014 2011–2013 2011–2012 2011 2011 2010–2012 2010–2012 2009–present 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>	
Lingbo Mo	2024
Byung-Doh Oh	2023
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>	
Henrique Yagui Takahashi (Dissertation Exam), Spanish & Portuguese	2024
Thierno Aliou Diallo (Dissertation Exam), French & Italian	2023
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>	
Tomiris Kaumenova (1 <sup>st</sup> qualifying paper)	2024–present
Yi-Chien Lin (1 <sup>st</sup> qualifying paper)	2024–present
Alyssa Allen (1 <sup>st</sup> qualifying paper)	2023–present
Christian Clark (2 <sup>nd</sup> qualifying paper)	2023
Ashley Lewis (2 <sup>nd</sup> qualifying paper)	2022–2023
Nanjiang Jiang (2 <sup>nd</sup> qualifying paper)	2022
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
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- Robert Dale and Michael White. 2007. *Position Papers of the Workshop on Shared Tasks and Comparative Evaluation in Natural Language Generation*.
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- 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.
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- 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*.
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- 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)*.
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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)*.

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PEER-  
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WORKSHOP  
PROCEEDINGS

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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*.

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- 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)*.
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- 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*.

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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*.

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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.

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