

# Mohit Bansal

John R. & Louise S. Parker Associate Professor, Computer Science, UNC Chapel Hill  
Director, [MURGe-Lab \(UNC-NLP Group\)](#)

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[Google Scholar Profile](#)

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## Research Interests

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Statistical Natural Language Processing (NLP), Machine Learning, Multimodal Artificial Intelligence.  
Current focus: Multimodal, grounded, and embodied semantics (i.e., language with vision and speech, for robotics), human-like language generation and Q&A/dialogue, and interpretable and generalizable deep learning.

## Education

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### **University of California, Berkeley** (2008-2013)

Ph.D. in Computer Science

Thesis: [Surface Web Semantics for Structured Natural Language Processing](#)

Advisor: Dan Klein. Committee members: Dan Klein, Marti Hearst, Line Mikkelsen, Nelson Morgan

### **University of California, Berkeley** (2012)

Master of Science (M.S.) in Computer Science

Thesis: [An All-Fragments Grammar for Simple and Accurate Parsing](#)

Advisor: Dan Klein

### **Indian Institute of Technology, Kanpur** (2004-2008)

Bachelor of Technology (B.Tech.) in Computer Science and Engineering

GPA: 3.96/4.00 (Institute and Department Rank 2)

### **Cornell University** (Summer 2007)

CS490 (Independent Research and Reading)

GPA: 4.00/4.00

Advisors: Lillian Lee, Claire Cardie

## Honors, Awards, and Funding

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[CVPR Best Student Paper Honorable Mention](#) (2021)

[EACL Best Long Paper Award Honorable Mention](#) (2021)

[UNC Phillip and Ruth Hettleman Prize for Artistic and Scholarly Achievement](#) (2020)

[IJCAI Early Career Spotlight](#) (2020) (previous years: 2016, 2017, 2018, 2019)

[John R. & Louise S. Parker Faculty Fellow/Scholar \(Distinguished Asst./Assoc. Professorship\)](#) (2020)

[DARPA Director's Fellowship](#) (2019)

[Microsoft Investigator Fellowship](#) (2019)

[Amazon Machine Learning Research Award](#) (2019)

[NSF CAREER Award](#) (2019)

Google Focused Research Award (2019)  
ACL Best Short Paper Nomination (2019)  
Salesforce Research Deep Learning Grant (2018)  
Facebook Faculty Research Award (2018)  
IBM Faculty Award (2018)  
Army Research Office Young Investigator Award (ARO-YIP) (2018)  
'Area Chair Favorites' Paper Award, COLING (2018)  
Adobe Faculty Research Award (2018)  
Verisk AI Faculty Research Award (2018, 2019)  
DARPA Young Faculty Award (DARPA-YFA) (2017)  
Best/Outstanding Reviewer Award, COLING (2018), NAACL (2018), NAACL (2015), EMNLP (2012)  
Facebook ParlAI Faculty Research Award (2017)  
Outstanding Paper Award, ACL (2017)  
UNC University Research Council (URC) Small Grant Program (2017)  
Google Faculty Research Award (2016)  
Nvidia Hardware Grant (2016, 2017, 2018)  
UNC Junior Faculty Development Award (2016)  
Best Paper Award, ACL Representation Learning for NLP Workshop (2016)  
Bloomberg Data Science Research Grant (2016)  
Nvidia Paper Award, NIPS Multimodal Machine Learning Workshop (2015)  
Google Faculty Research Award (2014)  
IBM Faculty Award (2014)  
Best Paper Award Honorable Mention (top-5 paper), ACL (2014)  
Outstanding Graduate Student Instructor Award, UC Berkeley (2011-2012)  
Qualcomm Innovation Fellowship (2011)  
Tong Leong Lim Pre-Doctoral Prize, EECS, UC Berkeley (2011)  
Cornell Summer Research Fellowship, CS, Cornell University (2007)  
INLAKS Fellowship – Award of Excellence at IITs (2005-2008)  
OPJEMS Fellowship, IIT Kanpur (2007-2008)  
Academic Excellence Award, IIT Kanpur (2004-2005 and 2005-2006)

**Honors/Awards of Students:**

Adobe Research Fellowship, 2021 (Jie Lei)  
Microsoft Research PhD Fellowship, 2019 (Ramakanth Pasunuru)  
Facebook PhD Fellowship Finalist, 2019 (Ramakanth Pasunuru)  
Bloomberg Data Science PhD Fellowship, 2019 (Hao Tan)  
NSF Graduate Research Fellowship, 2018 (Lisa Bauer)  
NSF Graduate Research Fellowship, 2019 (Darryl Hannan)  
Royster Society Kenan Fellowship, 2019 (Peter Hase)

CRA Outstanding Undergraduate Researcher Award Runner-Up, 2020 (Sweta Karlekar)  
CRA Outstanding Undergraduate Researcher Award Honorable Mention, 2019 (Han Guo)  
CRA Outstanding Undergraduate Researcher Award Finalist, 2020 (Han Guo)

#### **Other Funding/Grants:**

NSF-AI Institute on Engaged Learning (Core AI Lead)  
NSF Future of Work at the Human-Technology Frontier (UNC Co-PI)  
ONR Advancing Artificial Intelligence for the Naval Domain (UNC PI)  
DARPA Machine Common Sense (MCS) (UNC PI)  
DARPA Knowledge-directed Artificial Intelligence Reasoning Over Schemas (KAIROS) (UNC PI)  
NSF-NIH SCH AURA Connecting Audio and Radio Sensing Systems to Improve Care at Home (UNC Co-PI)

### **Research and Work Experience**

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#### **UNC Chapel Hill, Computer Science Dept. (2016 – present)**

Associate Professor (2020-present)  
Assistant Professor (2016-2020)  
John R. & Louise S. Parker Distinguished Professorship  
Director, [MURGe Lab \(UNC-NLP Group\)](#)

#### **Toyota Technological Institute at Chicago (2013 – 2016)**

Research Assistant Professor (3-year endowed position)

#### **University of California, Berkeley (2008 – 2013)**

Graduate Student Researcher (Advisor: Dan Klein)

#### **Google Research, Mountain View (Summer 2011)**

Research Intern (with John DeNero and Dekang Lin)

#### **Microsoft Research, Redmond (Summer 2010)**

Research Intern (with Chris Quirk and Bob Moore)

#### **Cornell University, CS division (Summer 2007)**

Research Intern (with Lillian Lee and Claire Cardie)

### **Publications**

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Citations = 7745; h-index = 44; i10-index=90

(All code/data available for various papers on our lab's webpage: <https://murgelab.cs.unc.edu/software.html>)

(Topic-based publication lists for NLG, Multimodal AI, Interpretable/Adversarial QA, and AutoML, available at: <http://www.cs.unc.edu/mbansal/#publications>)

#### **Peer-reviewed Publications:**

140. Unifying Vision-and-Language Tasks via Text Generation  
Jaemin Cho, Jie Lei, Hao Tan, Mohit Bansal  
Proceedings of **ICML 2021**. [[pdf](#)]
139. EmailSum: Abstractive Email Thread Summarization  
Shiyue Zhang, Asli Celikyilmaz, Jianfeng Gao, Mohit Bansal  
Proceedings of **ACL 2021**. [[pdf](#)]

138. Continuous Language Generative Flow  
Zineng Tang, Shiyue Zhang, Hyounghun Kim, Mohit Bansal  
Proceedings of **ACL 2021**. [[pdf](#)]
137. mTVR: Multilingual Moment Retrieval in Videos  
Jie Lei, Tamara Berg, Mohit Bansal  
Proceedings of **ACL 2021** (short papers). [[pdf](#)]
136. I like fish, especially dolphins: Addressing Contradictions in Dialogue Modeling  
Yixin Nie, Mary Williamson, Mohit Bansal, Douwe Kiela, Jason Weston  
Proceedings of **ACL 2021**. [[pdf](#)]
135. InfoSurgeon: Cross-Media Fine-grained Information Consistency Checking for Fake News Detection  
Yi Fung, Christopher Thomas, Revanth Gangi Reddy, Sandeep Polisetty, Heng Ji, Shih-Fu Chang, Kathleen McKeown, Mohit Bansal, Avi Sil  
Proceedings of **ACL 2021**. [[pdf](#)]
134. Analysis of Tree-Structured Architectures for Code Generation  
Samip Dahal, Adyasha Maharana, Mohit Bansal  
Findings of **ACL 2021** (short papers). [[pdf](#)]
133. ChrEnTranslate: Cherokee-English Machine Translation Demo with Quality Estimation and Corrective Feedback  
Shiyue Zhang, Benjamin Frey and Mohit Bansal  
Proceedings of **ACL 2021** (demo papers). [[pdf](#)]
132. Disentangling Online Chats with DAG-structured LSTMs  
Duccio Pappadopulo\*, Lisa Bauer\*, Marco Farina, Ozan ?rsoy, Mohit Bansal  
Proceedings of **\*SEM 2021**. [[pdf](#)]
131. multiPProver: Generating Multiple Proofs for Improved Interpretability in Rule Reasoning  
Swarnadeep Saha, Prateek Yadav and Mohit Bansal  
Proceedings of **NAACL 2021**. [[pdf](#)]
130. Improving Generation and Evaluation of Visual Stories via Semantic Consistency  
Adyasha Maharana, Darryl Hannan and Mohit Bansal  
Proceedings of **NAACL 2021**. [[pdf](#)]
129. DeCEMBERT: Learning from Noisy Instructional Videos via Dense Captions and Entropy Minimization  
Zineng Tang\*, Jie Lei\* and Mohit Bansal  
Proceedings of **NAACL 2021**. [[pdf](#)]
128. Improving Cross-Modal Alignment in Vision Language Navigation via Syntactic Information  
Jialu Li, Hao Tan and Mohit Bansal  
Proceedings of **NAACL 2021** (short papers). [[pdf](#)]
127. Dynabench: Rethinking Benchmarking in NLP  
Douwe Kiela, Max Bartolo, Yixin Nie, Divyansh Kaushik, Atticus Geiger, Zhengxuan Wu, Bertie Vidgen, Grusha Prasad, Amanpreet Singh, Pratik Ringshia, Zhiyi Ma, Tristan Thrush, Sebastian Riedel, Zeerak Waseem, Pontus Stenetorp, Robin Jia, Mohit Bansal, Christopher Potts and Adina Williams  
Proceedings of **NAACL 2021**. [[pdf](#)]
126. Enriching Transformers with Structured Tensor-Product Representations for Abstractive Summarization  
Yichen Jiang, Asli Celikyilmaz, Paul Smolensky, Paul Soulos, Sudha Rao, Hamid Palangi, Roland Fernandez, Caitlin Smith, Mohit Bansal, and Jianfeng Gao  
Proceedings of **NAACL 2021**. [[pdf](#)]
125. Efficiently Summarizing Text and Graph Encodings of Multi-Document Clusters  
Ramakanth Pasunuru, Mengwen Liu, Mohit Bansal, Sujith Ravi and Markus Dreyer  
Proceedings of **NAACL 2021**. [[pdf](#)]

124. Extending Multi-Document Summarization Evaluation to the Interactive Setting  
Ori Shapira, Ramakanth Pasunuru, Hadar Ronen, Mohit Bansal, Yael Amsterdamer and Ido Dagan  
Proceedings of **NAACL 2021**. [\[pdf\]](#)
123. Robustness Gym: Unifying the NLP Evaluation Landscape  
Karan Goel, Nazneen Fatema Rajani, Jesse Vig, Zachary Taschdjian, Mohit Bansal and Christopher Re  
Proceedings of **NAACL 2021** (demo papers). [\[pdf\]](#)
122. ERNIE-NLI: Analyzing the Impact of Domain-Specific External Knowledge on Enhanced Representations for NLI  
Lisa Bauer, Lingjia Deng, Mohit Bansal  
Proceedings of **DeeLIO Workshop, NAACL 2021**. [\[pdf\]](#)
121. GENE: Global Event Network Embedding  
Qi Zeng, Manling Li, Tuan Lai, Heng Ji, Mohit Bansal, Hanghang Tong  
Proceedings of **TextGraphs Workshop, NAACL 2021**. [\[pdf\]](#)
120. The Effect of Pretraining on Extractive Summarization for Scientific Documents  
Yash Gupta, Pawan Sasanka, Shikha Bordia, Arjun Manoharan, Deepak Mittal, Ramakanth Pasunuru, Manish Shrivastava, Maneesh Singh, Mohit Bansal, Preethi Jyothi  
Proceedings of **Scholarly Document Processing Workshop, NAACL 2021**. [\[pdf\]](#)
119. Less is More: ClipBERT for Video-and-Language Learning via Sparse Sampling  
Jie Lei\*, Linjie Li\*, Luowei Zhou, Zhe Gan, Tamara L. Berg, Mohit Bansal, Jingjing Liu  
Proceedings of **CVPR 2021**. [\[pdf\]](#)  
*(CVPR Best Student Paper Honorable Mention)*
118. Identify, Align, and Integrate: Matching Knowledge Graphs to Commonsense Reasoning Tasks  
Lisa Bauer and Mohit Bansal  
Proceedings of **EACL 2021**. [\[pdf\]](#)
117. Hidden Biases in Unreliable News Detection Datasets  
Xiang Zhou, Heba Elfardy, Christos Christodoulopoulos, Thomas Butler and Mohit Bansal  
Proceedings of **EACL 2021**. [\[pdf\]](#)  
*(EACL Best Long Paper Honorable Mention)*
116. FixMyPose: Pose Correctional Captioning and Retrieval  
Hyoungun Kim\*, Abhaysinh Zala\*, Graham Burri, and Mohit Bansal  
Proceedings of **AAAI 2021**. [\[pdf\]](#)
115. Data Augmentation for Abstractive Query-Focused Multi-Document Summarization  
Ramakanth Pasunuru, Asli Celikyilmaz, Michel Galley, Chenyan Xiong, Yizhe Zhang, Mohit Bansal, and Jianfeng Gao  
Proceedings of **AAAI 2021**. [\[pdf\]](#)
114. Dual Reinforcement-Based Specification Generation for Image De-Rendering  
Ramakanth Pasunuru, David Rosenberg, Gideon Mann, and Mohit Bansal  
Proceedings of **Scientific Document Understanding Workshop, AAAI 2021**. [\[pdf\]](#)
113. ChrEn: Cherokee-English Machine Translation for Endangered Language Revitalization  
Shiyue Zhang, Benjamin Frey, and Mohit Bansal  
Proceedings of **EMNLP 2020**. [\[pdf\]](#)
112. Vokenization: Improving Language Understanding via Contextualized, Visually-Grounded Supervision  
Hao Tan and Mohit Bansal  
Proceedings of **EMNLP 2020**. [\[pdf\]](#)

111. What Can We Learn from Collective Human Opinions on Natural Language Inference Data?  
Yixin Nie, Xiang Zhou, and Mohit Bansal  
Proceedings of **EMNLP 2020**. [[pdf](#)]
110. What Is More Likely To Happen Next? Video-and-Language Future Event Prediction  
Jie Lei, Licheng Yu, Tamara Berg, and Mohit Bansal  
Proceedings of **EMNLP 2020**.
109. ConjNLI: Natural Language Inference Over Conjunctive Sentences  
Swarnadeep Saha, Yixin Nie, and Mohit Bansal  
Proceedings of **EMNLP 2020**.
108. PProver: Proof Generation for Interpretable Reasoning over Rules  
Swarnadeep Saha, Sayan Ghosh, Shashank Srivastava and Mohit Bansal  
Proceedings of **EMNLP 2020**. [[pdf](#)]
107. DORB: Dynamically Optimizing Multiple Rewards with Bandits  
Ramakanth Pasunuru, Han Guo, and Mohit Bansal  
Proceedings of **EMNLP 2020**.
106. The Curse of Performance Instability in Analysis Datasets: Consequences, Source, and Suggestions  
Xiang Zhou, Yixin Nie, Hao Tan, and Mohit Bansal  
Proceedings of **EMNLP 2020**. [[pdf](#)]
105. Leakage-Adjusted Simulatability: Can Models Generate Non-Trivial Explanations of Their Behavior in Natural Language?  
Peter Hase, Shiyue Zhang, Harry Xie, and Mohit Bansal  
Findings of **EMNLP 2020**. [[pdf](#)]
104. ArraMon: A Joint Navigation-Assembly Instruction Interpretation Task in Dynamic Environments  
Hyoungun Kim, Abhaysinh Zala, Graham Burri, Hao Tan, and Mohit Bansal  
Findings of **EMNLP 2020**.
103. HoVer: A Dataset for Many-Hop Fact Extraction And Claim Verification  
Yichen Jiang\*, Shikha Bordia\*, Zheng Zhong, Charles Dognin, Maneesh Singh, and Mohit Bansal  
Findings of **EMNLP 2020**.
102. Adversarial Augmentation Policy Search for Domain and Cross-Lingual Generalization in Reading Comprehension  
Adyasha Maharana and Mohit Bansal  
Findings of **EMNLP 2020**. [[pdf](#)]
101. FENAS: Flexible and Expressive Neural Architecture Search  
Ramakanth Pasunuru and Mohit Bansal  
Findings of **EMNLP 2020** (short papers).
100. TVR: A Large-Scale Dataset for Video-Subtitle Moment Retrieval  
Jie Lei, Licheng Yu, Tamara L. Berg, Mohit Bansal  
Proceedings of **ECCV 2020**. [[pdf](#)]
99. Diagnosing the Environment Bias in Vision-and-Language Navigation  
Yubo Zhang\*, Hao Tan\*, and Mohit Bansal  
Proceedings of **IJCAI 2020**. [[pdf](#)]
98. Evaluating Explainable AI: Which Algorithmic Explanations Help Users Predict Model Behavior?  
Peter Hase and Mohit Bansal  
Proceedings of **ACL 2020**. [[pdf](#)]

97. Towards Robustifying NLI Models Against Lexical Dataset Biases  
Xiang Zhou and Mohit Bansal  
Proceedings of **ACL 2020**.
96. Adversarial NLI: A New Benchmark for Natural Language Understanding  
Yixin Nie, Adina Williams, Emily Dinan, Mohit Bansal, Jason Weston, and Douwe Kiela  
Proceedings of **ACL 2020**. [[pdf](#)]
95. Dense-Caption Matching and Frame-Selection Gating for Temporal Localization in VideoQA  
Hyounghun Kim, Zineng Tang, and Mohit Bansal  
Proceedings of **ACL 2020**.
94. MART: Memory-Augmented Recurrent Transformer for Coherent Video Paragraph Captioning  
Jie Lei, Liwei Wang, Yelong Shen, Dong Yu, Tamara Berg, and Mohit Bansal  
Proceedings of **ACL 2020**.
93. TVQA+: Spatio-Temporal Grounding for Video Question Answering  
Jie Lei, Licheng Yu, Tamara L. Berg, and Mohit Bansal  
Proceedings of **ACL 2020**. [[pdf](#)]
92. Simple Compounded-Label Training for Fact Extraction and Verification  
Yixin Nie\*, Lisa Bauer\*, and Mohit Bansal  
Proceedings of **Fact Extraction and VERification (FEVER) workshop, ACL 2020**. [[pdf](#)]
91. Multi-Source Domain Adaptation for Text Classification via DistanceNet-Bandits  
Han Guo, Ramakanth Pasunuru, and Mohit Bansal  
Proceedings of **AAAI 2020**. [[pdf](#)]
90. ManyModalQA: Modality Disambiguation and QA over Diverse Inputs  
Darryl Hannan, Akshay Jain, and Mohit Bansal  
Proceedings of **AAAI 2020**. [[pdf](#)]
89. AvgOut: A Simple Output-Probability Measure to Eliminate Dull Responses  
Tong Niu and Mohit Bansal  
Proceedings of **AAAI 2020**. [[pdf](#)]
88. Modality-Balanced Models for Visual Dialogue  
Hyounghun Kim, Hao Tan, and Mohit Bansal  
Proceedings of **AAAI 2020**. [[pdf](#)]
87. Enabling Robots to Understand Incomplete Natural Language Instructions Using Commonsense Reasoning  
Haonan Chen, Hao Tan, Alan Kuntz, Mohit Bansal, Ron Alterovitz  
Proceedings of **ICRA 2020**. [[pdf](#)]
86. LXMERT: Learning Cross-Modality Encoder Representations from Transformers  
Hao Tan and Mohit Bansal  
Proceedings of **EMNLP 2019**. [[pdf](#)]
85. Self-Assembling Modular Networks for Interpretable Multi-Hop Reasoning  
Yichen Jiang and Mohit Bansal  
Proceedings of **EMNLP 2019**. [[pdf](#)]
84. Addressing Semantic Drift in Question Generation for Semi-Supervised Question Answering  
Shiyue Zhang and Mohit Bansal  
Proceedings of **EMNLP 2019**. [[pdf](#)]
83. Revealing the Importance of Semantic Retrieval for Machine Reading at Scale  
Yixin Nie, Songhe Wang, and Mohit Bansal  
Proceedings of **EMNLP 2019**. [[pdf](#)]



82. Automatically Learning Data Augmentation Policies for Dialogue Tasks  
Tong Niu and Mohit Bansal  
Proceedings of **EMNLP 2019** (short papers). [pdf]
81. Continual and Multi-Task Architecture Search  
Ramakanth Pasunuru and Mohit Bansal  
Proceedings of **ACL 2019**. [pdf]
80. Avoiding Reasoning Shortcuts: Adversarial Evaluation, Training, and Model Development for Multi-Hop QA  
Yichen Jiang and Mohit Bansal  
Proceedings of **ACL 2019**. [pdf]
79. Explore, Propose, and Assemble: An Interpretable Model for Multi-Hop Reading Comprehension  
Yichen Jiang, Nitish Joshi, Yen-Chun Chen, and Mohit Bansal  
Proceedings of **ACL 2019**. [pdf]
78. Expressing Visual Relationships via Language  
Hao Tan, Franck Dernoncourt, Zhe Lin, Trung Bui, and Mohit Bansal  
Proceedings of **ACL 2019**. [pdf]
77. Improving Visual Question Answering by Referring to Generated Paragraph Captions  
Hyoungun Kim and Mohit Bansal  
Proceedings of **ACL 2019** (short papers). [pdf]  
*(ACL Best Short Paper Nominee)*
76. PaperRobot: Incremental Draft Generation of Scientific Ideas  
Qingyun Wang, Lifu Huang, Zhiying Jiang, Kevin Knight, Heng Ji, Mohit Bansal, and Yi Luan  
Proceedings of **ACL 2019**. [pdf]
75. Learning to Navigate Unseen Environments: Back Translation with Environmental Dropout  
Hao Tan, Licheng Yu, and Mohit Bansal  
Proceedings of **NAACL 2019**. [pdf]  
*(1st Rank Model in Room-to-Room Vision-Language-Navigation Leaderboard)*
74. AutoSeM: Automatic Task Selection and Mixing in Multi-Task Learning  
Han Guo, Ramakanth Pasunuru, and Mohit Bansal  
Proceedings of **NAACL 2019**. [pdf]
73. Crowdsourcing Lightweight Pyramids for Manual Summary Evaluation  
Ori Shapira, David Gabay, Yang Gao, Hadar Ronen, Ramakanth Pasunuru, Mohit Bansal, Yael Amerdamer, and Ido Dagan  
Proceedings of **NAACL 2019** (short papers). [pdf]
72. Multi-Target Embodied Question Answering  
Licheng Yu, Xinlei Chen, Georgia Gkioxari, Mohit Bansal, Tamara L. Berg, and Dhruv Batra  
Proceedings of **CVPR 2019**. [pdf]
71. Efficient Generation of Motion Plans from Attribute-Based Natural Language Instructions Using Dynamic Constraint Mapping  
Jae Sung Park, Biao Jia, Mohit Bansal, Dinesh Manocha  
Proceedings of **ICRA 2019**. [pdf]
70. Combining Fact Extraction and Verification with Neural Semantic Matching Networks  
Yixin Nie, Haonan Chen, and Mohit Bansal  
Proceedings of **AAAI 2019**. [pdf]
69. Analyzing Compositionality-Sensitivity of NLI Models  
Yixin Nie, Yicheng Wang, and Mohit Bansal  
Proceedings of **AAAI 2019**. [pdf]



68. DSTC7-AVSD: Scene-Aware Video-Dialogue Systems with Dual Attention  
Ramakanth Pasunuru, Mohit Bansal  
Proceedings of **Dialog System Technology Challenges Workshop, AAAI 2019**. [[pdf](#)]  
*(selected oral, rank-3)*
67. Closed-Book Training to Improve Summarization Encoder Memory  
Yichen Jiang and Mohit Bansal  
Proceedings of **EMNLP 2018**. [[pdf](#)]
66. SafeCity: Understanding Diverse Forms of Sexual Harassment Personal Stories  
Sweta Karlekar and Mohit Bansal  
Proceedings of **EMNLP 2018** (short papers). [[pdf](#)]
65. Commonsense for Generative Multi-Hop Question Answering Tasks  
Lisa Bauer, Yicheng Wang, and Mohit Bansal  
Proceedings of **EMNLP 2018**. [[pdf](#)]
64. Game-Based Video-Context Dialogue  
Ramakanth Pasunuru and Mohit Bansal  
Proceedings of **EMNLP 2018**. [[pdf](#)]
63. TVQA: Localized, Compositional Video Question Answering  
Jie Lei, Licheng Yu, Mohit Bansal, and Tamara Berg  
Proceedings of **EMNLP 2018**. [[pdf](#)]
62. Incorporating Background Knowledge into Video Description Generation  
Spencer Whitehead, Heng Ji, Mohit Bansal, Shih-Fu Chang, and Clare Voss  
Proceedings of **EMNLP 2018**. [[pdf](#)]
61. Adversarial Over-Sensitivity and Over-Stability Strategies for Dialogue Models  
Tong Niu and Mohit Bansal  
Proceedings of **CoNLL 2018**. [[pdf](#)]
60. Combining Fact Extraction and Claim Verification in an NLI Model  
Yixin Nie, Haonan Chen, and Mohit Bansal  
In **Fact Extraction and Verification (FEVER) Workshop, EMNLP 2018**. [[pdf](#)]  
*(1st Rank Model in Shared Task)*
59. Dynamic Multi-Level, Multi-Task Learning for Sentence Simplification  
Han Guo, Ramakanth Pasunuru and Mohit Bansal  
Proceedings of **COLING 2018**. [[pdf](#)]  
*(‘Area Chair Favorites’ Paper Award)*
58. Polite Dialogue Generation Without Parallel Data  
Tong Niu and Mohit Bansal  
Proceedings of **TACL 2018**. [[pdf](#)]
57. Fast Abstractive Summarization with Reinforce-Selected Sentence Rewriting  
Yen-Chun Chen and Mohit Bansal  
Proceedings of **ACL 2018**. [[pdf](#)]
56. Soft, Layer-Specific Multi-Task Summarization with Entailment and Question Generation  
Han Guo, Ramakanth Pasunuru, and Mohit Bansal  
Proceedings of **ACL 2018**. [[pdf](#)]
55. #MeToo: Neural Detection and Explanation of Language in Personal Abuse Stories  
Sweta Karlekar and Mohit Bansal  
Proceedings of **WiNLP 2018 (Widening NLP Workshop), NAACL 2018**. [[pdf](#)]

54. Object Ordering with Bidirectional Matchings for Visual Reasoning  
Hao Tan and Mohit Bansal  
Proceedings of **NAACL 2018** (short papers). [[pdf](#)]  
*(Top Image Leaderboard Position)*
53. Multi-Reward Reinforced Summarization with Saliency and Entailment  
Ramakanth Pasunuru and Mohit Bansal  
Proceedings of **NAACL 2018** (short papers). [[pdf](#)]
52. Detecting Linguistic Characteristics of Alzheimer’s Dementia by Interpreting Neural Models  
Sweta Karlekar, Tong Niu, and Mohit Bansal  
Proceedings of **NAACL 2018** (short papers). [[pdf](#)]
51. Robust Machine Comprehension Models via Adversarial Training  
Yicheng Wang and Mohit Bansal  
Proceedings of **NAACL 2018** (short papers). [[pdf](#)]
50. Punny Captions: Witty Wordplay in Image Descriptions  
Arjun Chandrasekaran, Devi Parikh, and Mohit Bansal  
Proceedings of **NAACL 2018** (short papers). [[pdf](#)]
49. Joint Modeling of Text and Acoustic-Prosodic Cues for Neural Parsing  
Trang Tran, Shubham Toshniwal, Mohit Bansal, Kevin Gimpel, Karen Livescu, and Mari Ostendorf  
Proceedings of **NAACL 2018**. [[pdf](#)]
48. MAttNet: Modular Attention Network for Referring Expression Comprehension  
Licheng Yu, Zhe Lin, Xiaohui Shen, Jimei Yang, Xin Lu, Mohit Bansal, and Tamara Berg  
Proceedings of **CVPR 2018**. [[pdf](#)]
47. Source-Target Inference Models for Spatial Instruction Understanding  
Hao Tan and Mohit Bansal  
Proceedings of **AAAI 2018**. [[pdf](#)]
46. Retweet Wars: Tweet Popularity Prediction via Multimodal Regression  
Ke Wang, Mohit Bansal, and Jan-Michael Frahm  
Proceedings of **WACV 2018**. [[pdf](#)]
45. Interactive-Length Multi-Task Video Captioning with Cooperative Feedback  
Han Guo, Ramakanth Pasunuru, and Mohit Bansal  
Proceedings of **NIPS 2017** (demo papers).
44. Reinforced Video Captioning with Entailment Rewards  
Ramakanth Pasunuru and Mohit Bansal  
Proceedings of **EMNLP 2017** (short papers). [[pdf](#)]
43. Hierarchically-Attentive RNN for Album Summarization and Storytelling  
Licheng Yu, Mohit Bansal, and Tamara Berg  
Proceedings of **EMNLP 2017** (short papers). [[pdf](#)]
42. Video Highlight Prediction Using Audience Chat Reactions  
Cheng-Yang Fu, Joon Lee, Mohit Bansal, and Alexander Berg  
Proceedings of **EMNLP 2017** (short papers). [[pdf](#)]
41. Shortcut-Stacked Sentence Encoders for Multi-Domain Inference  
Yixin Nie and Mohit Bansal  
Proceedings of **RepEval Workshop, EMNLP 2017**. [[pdf](#)]  
*(Top Single Model in Shared Task)*

40. Towards Improving Abstractive Summarization via Entailment Generation  
Ramakanth Pasunuru, Han Guo, and Mohit Bansal  
Proceedings of **Summarization Frontiers Workshop, EMNLP 2017**. [pdf]  
*(Contributed Talk)*
39. Multi-Task Video Captioning with Video and Entailment Generation  
Ramakanth Pasunuru and Mohit Bansal  
Proceedings of **ACL 2017**. [pdf]  
*(Outstanding Paper Award; 1.5% accep. rate)*
38. A Joint Speaker-Listener-Reinforcer Model for Referring Expressions  
Licheng Yu, Hao Tan, Mohit Bansal, and Tamara L. Berg  
Proceedings of **CVPR 2017**. [pdf]  
*(Spotlight; 8.0% accep. rate)*
37. Navigational Instruction Generation as Inverse Reinforcement Learning with Neural Machine Translation  
Andrea F. Daniele, Mohit Bansal, and Matthew R. Walter  
Proceedings of **HRI 2017**. [pdf]
36. Contextual RNN-GANs for Abstract Reasoning Diagram Generation  
Arnab Ghosh, Viveka Kulharia, Amitabha Mukerjee, Vinay Namboodiri, and Mohit Bansal  
Proceedings of **AAAI 2017**. [pdf]
35. Coherent Dialogue with Attention-based Language Models  
Hongyuan Mei, Mohit Bansal, and Matthew Walter  
Proceedings of **AAAI 2017**. [pdf]
34. Interpreting Neural Networks to Improve Politeness Comprehension  
Malika Aubakirova and Mohit Bansal  
Proceedings of **EMNLP 2016** (short papers). [pdf]
33. Sort Story: Sorting Jumbled Images and Captions into Stories  
Harsh Agrawal, Arjun Chandrasekaran, Dhruv Batra, Devi Parikh, and Mohit Bansal  
Proceedings of **EMNLP 2016** (short papers). [pdf]
32. Question Relevance in VQA: Identifying Non-Visual And False-Premise Questions  
Arijit Ray, Gordon Christie, Mohit Bansal, Dhruv Batra, and Devi Parikh  
Proceedings of **EMNLP 2016** (short papers). [pdf]
31. Who did What: A Large-Scale Person-Centered Cloze Dataset  
Takeshi Onishi, Hai Wang, Mohit Bansal, Kevin Gimpel, and David McAllester  
Proceedings of **EMNLP 2016** (short papers). [pdf]
30. Charagram: Embedding Words and Sentences via Character n-grams  
John Wieting, Mohit Bansal, Kevin Gimpel, and Karen Livescu  
Proceedings of **EMNLP 2016**. [pdf]
29. End-to-end Relation Extraction using LSTMs on Sequences and Tree Structures  
Makoto Miwa and Mohit Bansal  
Proceedings of **ACL 2016**. [pdf]
28. Mapping Unseen Words to Task-Trained Embedding Spaces  
Pranava Swaroop Madhyastha, Mohit Bansal, Kevin Gimpel, and Karen Livescu  
Proceedings of **Workshop on Representation Learning for NLP, ACL 2016**. [pdf]  
*(Best Paper Award)*
27. What to talk about and how? Selective Generation using LSTMs with Coarse-to-Fine Alignment  
Hongyuan Mei, Mohit Bansal, and Matthew R. Walter  
Proceedings of **NAACL 2016**. [pdf]

26. The Role of Context Types and Dimensionality in Learning Word Embeddings  
Oren Melamud, David McClosky, Siddharth Patwardhan, and Mohit Bansal  
Proceedings of **NAACL 2016**. [pdf]
25. We Are Humor Beings: Understanding and Predicting Visual Humor  
Arjun Chandrasekaran, Ashwin Kalyan, Stanislaw Antol, Mohit Bansal, Dhruv Batra, C. Lawrence Zitnick, and Devi Parikh  
Proceedings of **CVPR 2016**. [pdf]  
*(Spotlight; 9.7% accep. rate)*
24. Towards Universal Paraphrastic Sentence Embeddings  
John Wieting, Mohit Bansal, Kevin Gimpel, and Karen Livescu  
Proceedings of **ICLR 2016**. [pdf]  
*(Oral; 5.7% accep. rate)*
23. Listen, Attend, and Walk: Neural Mapping of Navigational Instructions to Action Sequences  
Hongyuan Mei, Mohit Bansal, and Matthew R. Walter  
Proceedings of **AAAI 2016**. [pdf]  
*(Nvidia Paper Award in NIPS 2015 Multimodal Machine Learning workshop)*
22. Machine Comprehension with Syntax, Frames, and Semantics  
Hai Wang, Mohit Bansal, Kevin Gimpel, and David McAllester  
Proceedings of **ACL 2015** (short papers). [pdf]
21. From Paraphrase Database to Compositional Paraphrase Model and Back  
John Wieting, Mohit Bansal, Kevin Gimpel, Karen Livescu, and Dan Roth  
Proceedings of **TACL** (presented at **EMNLP 2015**). [pdf]
20. Dependency Link Embeddings: Continuous Representations of Syntactic Substructures  
Mohit Bansal  
Proceedings of **Workshop on Vector Space Modeling for NLP, NAACL 2015**. [pdf]  
*(Selected oral)*
19. Deep Multilingual Correlation for Improved Word Embeddings  
Ang Lu, Weiran Wang, Mohit Bansal, Kevin Gimpel, and Karen Livescu  
Proceedings of **NAACL 2015** (short papers). [pdf]
18. A Sense-Topic Model for Word Sense Induction with Unsupervised Data Enrichment  
Jing Wang, Mohit Bansal, Kevin Gimpel, Brian Ziebart, and Clement Yu  
Proceedings of **TACL** (presented at **NAACL 2015**). [pdf]
17. Accurate Vision-based Vehicle Localization using Satellite Imagery  
Hang Chu, Hongyuan Mei, Mohit Bansal, and Matthew R. Walter  
Proceedings of **NIPS 2015 Workshop on Transfer and Multi-Task Learning**. [pdf]
16. Weakly-Supervised Learning with Cost-Augmented Contrastive Estimation  
Kevin Gimpel and Mohit Bansal  
Proceedings of **EMNLP 2014**. [pdf]
15. Tailoring Continuous Word Representations for Dependency Parsing  
Mohit Bansal, Kevin Gimpel, and Karen Livescu  
Proceedings of **ACL 2014** (short papers). [pdf]
14. Structured Learning for Taxonomy Induction with Belief Propagation  
Mohit Bansal, David Burkett, Gerard de Melo, and Dan Klein  
Proceedings of **ACL 2014**. [pdf]  
*(Best Paper Award Honorable Mention – top-5 paper)*

13. What are you talking about? Text-to-Image Coreference  
Chen Kong, Dahua Lin, Mohit Bansal, Raquel Urtasun, and Sanja Fidler  
Proceedings of **CVPR 2014**. [\[pdf\]](#)
12. Good, Great, Excellent: Global Inference of Semantic Intensities  
Gerard de Melo and Mohit Bansal  
Proceedings of **TACL** (presented at **ACL 2013**). [\[pdf\]](#)
11. Coreference Semantics from Web Features  
Mohit Bansal and Dan Klein  
Proceedings of **ACL 2012**. [\[pdf\]](#)
10. Unsupervised Translation Sense Clustering  
Mohit Bansal, John DeNero, and Dekang Lin  
Proceedings of **NAACL 2012**. [\[pdf\]](#)
9. Web-Scale Features for Full-Scale Parsing  
Mohit Bansal and Dan Klein  
Proceedings of **ACL 2011**. [\[pdf\]](#)
8. Gappy Phrasal Alignment by Agreement  
Mohit Bansal, Chris Quirk, and Robert C. Moore  
Proceedings of **ACL 2011**. [\[pdf\]](#)
7. The Surprising Variance in Shortest-Derivation Parsing  
Mohit Bansal and Dan Klein  
Proceedings of **ACL 2011** (short papers). [\[pdf\]](#)
6. Mention Detection: Heuristics for the OntoNotes annotations  
Jonathan K. Kummerfeld, Mohit Bansal, David Burkett, and Dan Klein  
Proceedings of **CoNLL 2011** (shared task). [\[pdf\]](#)
5. Simple, Accurate Parsing with an All-Fragments Grammar  
Mohit Bansal and Dan Klein  
Proceedings of **ACL 2010**. [\[pdf\]](#)
4. Efficient Parsing for Transducer Grammars  
John DeNero, Mohit Bansal, Adam Pauls, and Dan Klein  
Proceedings of **NAACL 2009**. [\[pdf\]](#)
3. The power of negative thinking: Exploiting label disagreement in the min-cut classification framework  
Mohit Bansal, Claire Cardie, and Lillian Lee  
Proceedings of **COLING 2008** (short papers). [\[pdf\]](#)
2. Estimating hybrid frequency moments of data streams  
Sumit Ganguly, Mohit Bansal, and Shruti Dube  
Proceedings of **FAW 2008**, LNCS 5059, pp. 55-66.  
Also in the Journal of Combinatorial Optimization (**JOCO**). [\[pdf\]](#)
1. Text Processing for Text to Speech Systems in Indian Languages  
Anand Raj, Tanuja Sarkar, Satish Pammi, Santhosh Yuvaraj, Mohit Bansal, SP Kishore, and Alan W Black  
Proceedings of **ISCA SSW6 2007**. [\[pdf\]](#)

#### Theses:

1. Surface Web Semantics for Structured Natural Language Processing  
Mohit Bansal  
Ph.D. Thesis. EECS, UC Berkeley. Committee: Dan Klein (advisor), Marti Hearst, Line Mikkelsen, Nelson Morgan. [\[pdf\]](#)

2. An All-Fragments Grammar for Simple and Accurate Parsing  
Mohit Bansal  
M.S. Thesis. EECS, UC Berkeley. Advisor: Dan Klein. [[pdf](#)]

### Patents:

1. Techniques for Generating Translation Clusters  
John DeNero and Mohit Bansal (Google Research)  
Publication number: US20130275118 A1 (Oct 17, 2013).

## Teaching

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Instructor, [Connecting Language to Vision and Robotics](#) (COMP 590+790), UNC Chapel Hill, Fall 2021.

Instructor, [Natural Language Processing](#) (COMP 786), UNC Chapel Hill, Fall 2020.

Instructor, First-Year Honors Undergraduate: Human and Artificial Intelligence Through the Prism of Language, Fall 2019.

Instructor, [Advanced Topics in Natural Language Processing: Recent Progress in Different Learning Paradigms](#) (COMP 790.139), UNC Chapel Hill, Spring 2019.

Instructor, [Advanced Topics in Natural Language Processing: Conversational Models](#) (COMP 790.139), UNC Chapel Hill, Spring 2018.

Instructor, [Natural Language Processing](#) (COMP 790.139), UNC Chapel Hill, Fall 2017.

Instructor, [Advanced Topics in Natural Language Processing: Grounded Language for Robotics](#) (COMP 790.139), UNC Chapel Hill, Spring 2017.

Instructor, [Natural Language Processing](#) (COMP 790.139), UNC Chapel Hill, Fall 2016.

Guest Lecturer, Computational Linguistics (CMSC 35050, *Instructor*: John Goldsmith), University of Chicago, Spring 2015 – ‘Automatic Taxonomy Induction’.

Guest Lecturer, Robotics and Artificial Intelligence (TTIC 31170, *Instructor*: Matthew Walter), TTI-Chicago, University of Chicago, Spring 2015 – ‘Automatic Taxonomy Induction’.

Guest Lecturer, Visual Recognition with Text (CSC 2523, *Instructor*: Sanja Fidler), University of Toronto, Winter 2015 – short course on ‘Topics, Trends, and Resources in NLP’ [[slides](#)].

GSI, Introduction to Artificial Intelligence (CS188, *Instructor*: Dan Klein), UC Berkeley, Fall 2011. Received an Outstanding Graduate Student Instructor Award by UC Berkeley for excellence in teaching.

GSI, Advanced Topics in Artificial Intelligence (CS194-10, *Instructors*: Pieter Abbeel, Dan Klein, Jitendra Malik), UC Berkeley, Spring 2009. Sole TA for new course with 30 advanced students.

## Students/Interns

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### UNC Advisees:

Lisa Bauer (UNC, PhD) ([NSF Graduate Research Fellow](#))

Hyoungun Kim (UNC, PhD)

Jie Lei (UNC, PhD; co-advised with Tamara Berg) ([Adobe Research Fellow](#))

Yixin Nie (UNC, PhD)

Darryl Hannan (UNC, PhD) ([NSF Graduate Research Fellow](#))

Shiyue Zhang (UNC, PhD)

Xiang Zhou (UNC, PhD)

Peter Hase (UNC, PhD) ([Royster Society PhD Fellow](#))

Yichen Jiang (UNC, PhD)  
Adyasha Maharana (UNC, PhD)  
Swarnadeep Saha (UNC, PhD)  
Jaemin Cho (UNC, PhD)  
Jialu Li (UNC, PhD)  
Derek Tam (UNC, PhD)  
Prateek Yadav (UNC, PhD)

Tsion Coulter (UNC, BS)  
Han Guo (UNC, BS; [CRA Outstanding Undergraduate Researcher Award Finalist](#))  
Akshay Jain (UNC, BS)  
Sweta Karlekar (UNC, BS; [CRA Outstanding Undergraduate Researcher Award Runner-Up](#))  
Antonio Mendoza (UNC, BS)  
Songhe Wang (UNC, BS)  
Yicheng Wang (UNC, BS)

Past Advisees:

Ramakanth Pasunuru (UNC, PhD) ([Microsoft Research PhD Fellow](#); Facebook PhD Fellowship Finalist) →  
Research Scientist, Facebook AI  
Hao Tan (UNC, PhD; [Bloomberg Data Science PhD Fellow](#)) → Research Scientist, Adobe Research  
Yen-Chun Chen (UNC, MS) → Researcher, Microsoft Research  
Tong Niu (Visiting student; Duke, MS) → Research Scientist, Salesforce Research  
Licheng Yu (UNC, PhD; advisor = Tamara Berg) → Research Scientist, Facebook AI

Han Guo (UNC, BS) ([CRA Outstanding Undergraduate Researcher Award Finalist, 2020](#)) → PhD Student, CMU  
Sweta Karlekar (UNC, BS) ([CRA Outstanding Undergraduate Researcher Award Runner-Up, 2020](#)) → ML  
Engineer, Facebook  
Tsion Coulter (UNC, BS) → Deloitte  
Songhe Wang (UNC, BS) → PhD Student, Penn State  
Yicheng Wang (UNC, BS) → Software Engineer, JaneStreet  
Nitish Joshi (Visiting student; IIT Bombay, BS) → PhD Student, NYU

Malika Aubakirova (UChicago, BS)  
Arjun Chandrasekaran (Georgia Tech, PhD; advisor = Devi Parikh) (Visiting PhD Intern)  
Dhivya Eswaran (IIT-Madras, BTech → CMU, PhD)  
Rasool Fakoor (UT-Arlington, PhD → MSR)  
Arnab Ghosh (IIT Kanpur, BTech → Oxford, PhD)  
Yuchen He (UIUC, PhD)  
Myungin Kim (UChicago, MS)  
Zuyao Li (USC, MS → Google/Nest)  
Ang Lu (Tsinghua, BS → CMU, MS)  
Pranava S. Madhyastha (UPC Barcelona, PhD)  
Hongyuan Mei (UChicago/TTIC, MS → JHU, PhD) (MS Thesis Co-Advisor)  
Aravind L Srinivas (IIT Madras, BTech → UC Berkeley, PhD)  
Ryan Stout (UIUC, MS)  
Trang Tran (UWash, PhD)  
Jing Wang (UIC, PhD → Conversant, Scientist)



John Wieting (UIUC/TTIC, MS → CMU, PhD)  
Zhengyang Wu (GeorgiaTech, BS)

## Professional Service

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**Co-Organizer:** [ACL Mentoring Program](#)

**Action Editor:** TACL Journal

**Action Editor:** Computation Linguistics (CL) Journal

**Associate Editor:** IEEE/ACM Transactions on Audio Speech and Language Processing (TASLP)

**Editorial Board:** Computer Speech and Language Journal

**Americas Sponsorship Co-Chair for the ACL:** 2020-2023

**Senior Area Chair:** ACL 2022

**Area Chair:** ICLR 2021

**Senior Area Chair:** ACL 2021

**Senior Area Chair:** NAACL 2021

**Senior Area Chair:** AAAI 2021

**Area Chair:** IJCAI 2021

**Senior Area Chair:** EMNLP 2020

**Senior Area Chair:** ACL 2020

**Program Co-Chair:** CoNLL 2019

**Senior Program Committee Member:** AAAI 2020

**Area Chair:** NAACL 2019

**Area Chair:** EMNLP 2018

**Tutorial Chair:** NAACL 2018

**Area Chair (Vision, Robotics, and Grounding):** ACL 2017

**Area Chair (Machine Learning):** EMNLP 2017

**Demonstration Chair:** ACL 2017

**Tutorial Chair:** NAACL 2016

**Area Chair:** NAACL 2016

**Program Committee Member/Reviewer:**

**Conferences:** EMNLP (best reviewer award in 2012), NAACL (best reviewer award in 2018, 2015), ACL, NIPS, ICLR, IJCAI, EACL, COLING (outstanding reviewer award in 2018), \*SEM, IJCNLP, ICON

**Journals:** TACL, TPAMI, TALIP

**Recent Workshops:** ACL Workshop of Women in Natural Language Processing (2017), ACL Workshop on Representation Learning for NLP (2017), EACL Workshop on Ethics in Natural Language Processing (2017), NAACL Multilingual and Crosslingual Methods in NLP (2016), NAACL Human-Computer Question Answering (2016), ACL Evaluating Vector-Space Representations for NLP (2016), NAACL Vector Space Modeling for NLP (2015).

**University Research Proposals:** NSF, ARO, ORAU

**Organizer:** EMNLP 2020 Workshop on Spatial Language Understanding (SpLU)

**Organizer:** NAACL 2019 Joint Workshop on Spatial Language Understanding & Language Grounding for Robotics (SpLU-RobNLP)

**Organizer:** CVPR 2019 Workshop on Conceptual Captions

**Organizer:** NLP/ML Colloquium Series at UNC

**Organizer:** ACL 2017 Workshop on Language Grounding for Robotics (RoboNLP)

**Organizer:** Midwest Speech and Language Days 2015

**Committee Member:** Faculty Hiring Committee, CS, UNC Chapel Hill

**Software and Datasets:** Available for various papers on our lab's webpage:  
<https://murgelab.cs.unc.edu/software.html>

## Recent Invited Talks

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Keynote slides also available at [link](#).

Fact Extraction and VERification (FEVER) Workshop, EMNLP 2021 (upcoming)

Advances in Language and Vision Research (ALVR) Workshop, NAACL 2021 (upcoming)

Person in Context Workshop, CVPR 2021 (upcoming)

VQA Workshop, CVPR 2021 (upcoming)

IJCAI 2020 Early Career Spotlight Talk

Singapore Symposium on Natural Language Processing (SSNLP 2020) ['Towards Knowledge-Robust and Multimodally-Grounded NLP': video]

3rd Workshop on Neural Generation and Translation (WNGT @ EMNLP 2019) ['Knowledgeable and Multimodal Language Generation': slides]

1st Workshop on Beyond Vision and Language: Integrating Knowledge from Real-World (LANTERN @ EMNLP 2019) ['Knowledgeable and Dynamic Spatio-Temporal Language+Vision+Robotics': slides]

Workshop on Machine Reading for Question Answering (MRQA @ EMNLP 2019) ['Interpretability and Robustness for Multi-Hop QA': slides]

4th Workshop on Representation Learning for NLP (RepL4NLP @ ACL 2019) ['Knowledgeable and Adversarially-Robust Representation Learning': slides]

RSS-2018 Natural Human-Robot Communication Workshop ['Spatially-Grounded, Personable, and Sensible Human-Robot Communication']

'Grounded, Personable, and Adversarial Dialog Models', *GeorgiaTech, Google Assistant and Dialog Workshop, UNC-SAS-NVidia Deep Learning Symposium, Kenan Rethinc Machine Learning Symposium, IBM NCTEC Conference* (June-Dec, 2018)

'Multi-Task and Reinforcement Learning for Entailment-Based Natural Language Generation', *JHU, Bloomberg, Google, Facebook, UIUC, UWash, Amazon, Triangle ML Day, RTI* (May 2017-June 2018)

'Structured Learning of World Knowledge for Natural Language Semantics', *CMU, MSR, Rutgers, UC Davis, UC Irvine, UNC Chapel Hill, UT Austin, Virginia Tech* (Feb-Apr, 2016)

'Neural Attention Models for Natural Language Grounding and Generation', *IIT-Delhi, IIT-Kanpur* (Sep-Oct, 2015)

'Improving Neural Embeddings via Paraphrase, Translational, and Syntactic Knowledge', *Columbia University, Google Research, NYU* (Apr, 2015)

'Semantic World Knowledge for NLP', *UToronto, UMichigan, Virginia Tech*, (Nov-Jan, 2015)