

MOHIT IYER

miyyer@cs.umass.edu
<http://cs.umass.edu/~miyyer>

ACADEMIC APPOINTMENTS

University of Massachusetts, Amherst September 2018 —
Assistant Professor, Computer Science
Research Interests: *natural language processing, deep learning*

EDUCATION

University of Maryland, College Park 2012 — 2017
Ph.D. in Computer Science
Master of Science, Computer Science, 2012 - 2014

Washington University in St. Louis 2008 — 2012
BS in Computer Science
Minors: Bioinformatics & Creative Writing

RESEARCH & PROFESSIONAL EXPERIENCE

Postdoctoral Researcher, [Allen Institute for AI](#) July 2017 — July 2018
Supervisors: [Luke Zettlemoyer](#), [Scott Yih](#)

Research Assistant, [University of Maryland, College Park](#) May 2013 — June 2017
Advisors: [Jordan Boyd-Graber](#), [Hal Daumé III](#)

Research Intern, [NLP Group, Microsoft Research, Redmond](#) June — September 2016
Supervisors: [Scott Yih](#), [Ming-Wei Chang](#)

Research Intern, [MetaMind](#) January — April 2015
Supervisor: [Richard Socher](#)

AWARDS

Best Long Paper Award, NAACL 2018
Larry S. Davis Doctoral Dissertation Award, 2017
Best Long Paper Award, NAACL 2016
Best Demonstration Award, NIPS 2015

Pedro Rodriguez, Shi Feng, **Mohit Iyyer**, He He, and Jordan Boyd-Graber. [Quizbowl: The Case for Incremental Question Answering](#). *In submission*.

CONFERENCE PUBLICATIONS

1. Jack Merullo*, Luke Yeh*, Abram Handler, Alvin Grissom II, Brendan O'Connor, **Mohit Iyyer**. Investigating Sports Commentator Bias within a Large Corpus of American Football Broadcasts. *EMNLP 2019* (short).
2. Andrew Drozdov, Patrick Verga, Yi-Pei Chen, **Mohit Iyyer**, Andrew McCallum. Unsupervised Labeled Parsing with Deep Inside-Outside Recursive Autoencoders. *EMNLP 2019* (short).
3. Chen Qu, Liu Yang, Minghui Qiu, Yongfeng Zhang, Cen Chen, W. Bruce Croft, **Mohit Iyyer**. Attentive History Selection for Conversational Question Answering. *CIKM 2019*.
4. Nader Akoury, Kalpesh Krishna, and **Mohit Iyyer**. [Syntactically Supervised Transformers for Faster Neural Machine Translation](#). *ACL 2019*.
5. Kalpesh Krishna and **Mohit Iyyer**. [Generating Question-Answer Hierarchies](#). *ACL 2019*.
6. Tu Vu and **Mohit Iyyer**. [Encouraging Paragraph Embeddings to Remember Sentence Identity Improves Classification](#). *ACL 2019* (short).
7. Chen Qu, Liu Yang, Minghui Qiu, W. Bruce Croft, Yongfeng Zhang and **Mohit Iyyer**. [BERT with History Modeling for Conversational Question Answering](#). *SIGIR 2019* (short).
8. Andrew Drozdov, Patrick Verga, Mohit Yadav, **Mohit Iyyer**, Andrew McCallum. [Unsupervised Latent Tree Induction with Deep Inside-Outside Recursive Auto-Encoders](#). *NAACL 2019*.
9. Shufan Wang, **Mohit Iyyer**. [Casting Light on Invisible Cities: Computationally Engaging with Literary Criticism](#). *NAACL 2019* (short).
10. Eunsol Choi*, He He*, **Mohit Iyyer***, Mark Yatskar*, Wen-tau Yih, Yejin Choi, Percy Liang, Luke Zettlemoyer. [QuAC: Question Answering in Context](#). *EMNLP 2018*.
11. Shi Feng, Eric Wallace, Alvin Grissom II, **Mohit Iyyer**, Pedro Rodriguez, Jordan Boyd-Graber. [Pathologies of Neural Models Make Interpretation Difficult](#). *EMNLP 2018*.
12. Kalpesh Krishna, Preethi Jyothi, **Mohit Iyyer**. [Revisiting the Importance of Encoding Logic Rules in Sentiment Classification](#). *EMNLP 2018* (short).
13. **Mohit Iyyer***, John Wieting*, Kevin Gimpel, Luke Zettlemoyer. [Adversarial Example Generation with Syntactically Controlled Paraphrase Networks](#). *NAACL 2018*.
14. Matthew E. Peters, Mark Neumann, **Mohit Iyyer**, Matt Gardner, Christopher Clark, Kenton Lee, Luke Zettlemoyer. [Deep contextualized word representations](#). *NAACL 2018*. *Best long paper award*
15. Varun Manjunatha*, **Mohit Iyyer***, Jordan Boyd-Graber, Larry Davis. [Learning to Color from Language](#). *NAACL 2018* (short); also appeared at *NIPS 2017 ViGIL Workshop*.

16. **Mohit Iyyer**, Wen-tau Yih, Ming-Wei Chang. [Search-based Neural Structured Learning for Sequential Question Answering](#). *ACL* 2017.
17. **Mohit Iyyer***, Varun Manjunatha*, Anupam Guha, Yogarshi Vyas, Jordan Boyd-Graber, Hal Daumé III, Larry Davis. [The Amazing Mysteries of the Gutter: Drawing Inferences Between Panels in Comic Book Narratives](#). *CVPR* 2017.
18. Snigdha Chaturvedi, **Mohit Iyyer**, Hal Daumé III. [Unsupervised Learning of Evolving Relationships Between Literary Characters](#). *AAAI* 2017.
19. **Mohit Iyyer**, Anupam Guha, Snigdha Chaturvedi, Jordan Boyd-Graber, Hal Daumé III. [Feuding Families and Former Friends: Unsupervised Learning for Dynamic Fictional Relationships](#). *NAACL* 2016. *Best long paper award*.
20. Ankit Kumar, Ozan Irsoy, Peter Ondruska, **Mohit Iyyer**, James Bradbury, Ishaan Gulrajani, Victor Zhong, Romain Paulus, and Richard Socher. [Ask Me Anything: Dynamic Memory Networks for Natural Language Processing](#). *ICML* 2016.
21. Jordan Boyd-Graber, **Mohit Iyyer**, He He, and Hal Daumé III. [Interactive Incremental Question Answering](#). *NIPS Demonstration Track*, 2015. *Outstanding Demonstration Award*.
22. **Mohit Iyyer**, Varun Manjunatha, Jordan Boyd-Graber, Hal Daumé III. [Deep Unordered Composition Rivals Syntactic Methods for Text Classification](#). *ACL* 2015.
23. Anupam Guha, **Mohit Iyyer**, Danny Bouman, Jordan Boyd-Graber. [Removing the Training Wheels: A Coreference Dataset that Entertains Humans and Challenges Computers](#). *NAACL* 2015.
24. **Mohit Iyyer**, Jordan Boyd-Graber, Richard Socher, Hal Daumé III. [A Neural Network for Factoid Question Answering over Paragraphs](#). *EMNLP* 2014.
25. **Mohit Iyyer**, Peter Enns, Jordan Boyd-Graber, Philip Resnik. [Political Ideology Detection Using Recursive Neural Networks](#). *ACL* 2014.
26. Amit Singh, **Mohit Iyyer**, Nicole Apetre, Subhasis Sarkar, Nam Phan. [Rotorcraft Flight Visualization Using HUMS Data](#). *American Helicopter Society Forum*, 2011.

WORKSHOP PUBLICATIONS

Anupam Guha, **Mohit Iyyer**, and Jordan Boyd-Graber. [A Distorted Skull Lies in the Bottom Center... Identifying Paintings from Text Descriptions](#). *NAACL Human-Computer QA Workshop*, 2016.

Mohit Iyyer, Jordan Boyd-Graber, Hal Daumé III. [Generating Sentences from Semantic Vector Space Representations](#). *NIPS Workshop on Learning Semantics*, 2014.

ADVISING

PHD ADVISEES:

Nader Akoury (2018-), CS

Kalpesh Krishna (2018-), CS

Tu Vu (2018-), CS

Shufan Wang (2019-), CS

Simeng Sun (2019-), CS

ON COMMITTEE:

Emma Strubell (UMass CS PhD, 2019)

Patrick Verga (UMass CS PhD, 2019)

Brandon Prickett (UMass Linguistics PhD, exp. 2020)

Carolyn Anderson (UMass Linguistics PhD, exp. 2020)

MENTORING:

Weiqiu You (2018-), UMass CS MS

Jack Merullo (2018-), UMass CS undergraduate

Luke Yeh (2018-), UMass CS undergraduate

Davis Yoshida (2016), CU Boulder undergraduate (now PhD student at TTIC)

Danny Bouman (2015), UMD College Park undergraduate

TEACHING

Spring 2019: Deep Learning for Natural Language Processing (CS690D), *106 students, new course*

Fall 2018, 2019: Introduction to Natural Language Processing (CS585), *107, 200 students*

FUNDING

Allen Institute Young Investigator Award, 2018: *\$125,000*

NSF CCRI Planning Grant for “Planning for the Development of a Platform to Support Multilingual and Multi-Domain Coreference Annotation for Natural Language Processing Research”, Co-PI w/ Brendan O’Connor, 2019: *\$100,000*

Intuit AI Award, 2019: *\$97,000*

Facebook Robust Deep Learning for NLP Award, Co-PI w/ Brendan O’Connor, 2019: *\$76,905*

Adobe Faculty Research Gift, 2019: *\$20,000*

TALKS

Jan 2020: talk at CMU LTI

Nov 2019: talks at NYU, Google AI Language

Sep 2019: *Neural Question Answering and Generation*: IBM QA and Semantic Parsing workshop

Mar 2019: *Neural Language Modeling*: UMass Cognitive Brown Bag

Nov 2018: *Deep Learning for Question Answering*: University of Antwerp

Oct 2018-May 2019: *Towards Understanding Narratives with Artificial Intelligence*: University of Vermont (Science of Stories Symposium), WPI, UMass Data Science for the Humanities Series, Amazon Cambridge

July 2018: *Generating QA Dialogs from Documents*: TTIC Language Generation workshop

Mar 2018: *Generating Adversarial Examples with Syntactically Controlled Paraphrase Networks*: USC/ISI NL Seminar

Feb 2018: *Towards Understanding Creative Language with Artificial Intelligence*: Ursinus College

Jan 2018: *Generating Syntactic Adversaries with Controlled Paraphrasing*: Indian Institute of Science, Bengaluru

Feb-April 2017, *Deep Learning for Creative Language Understanding*: UC Davis, TTIC, CMU, Dartmouth, Northeastern, UC Santa Cruz, UMass Amherst, WUSTL, Microsoft Research, Allen Institute for AI

Jan 2017: Talk at CU Boulder Stats, Optimization, and Machine Learning seminar

Nov 2016: Talk at UMass Amherst Machine Learning & Friends Lunch

SERVICE & OUTREACH

Area Chair for CoNLL 2019 and EMNLP 2019

Guest Editor of PLOS ONE [Science of Stories](#) Collection

Co-organizer of Narrative Understanding Workshop at NAACL 2019

Publicity Chair of EMNLP 2018

Co-organizer of Human-Computer Question Answering Competition at NIPS 2017

Co-organizer of Human-Computer Question Answering Workshop at NAACL 2016

Co-organizer of Mid-Atlantic Student Colloquium on Speech, Language and Learning (MASC-SLL) 2016

Talk at DC-NLP Meetup on “[Deep Learning for Question Answering](#)”

[Introductory talk](#) to high schoolers about the technology behind our quiz bowl system

Program Committee/Reviewer for TACL, ACL, EMNLP, NAACL, ICLR, NIPS, ICML, CVPR

MEDIA

CVPR 2017 comic books press: [MIT Tech Review](#), [Digital Trends](#)

NAACL 2016 relationships press: [Aeon](#)

EMNLP 2014 quiz bowl press: [UMIACS](#), [Terp](#), [Diamondback](#), [Colorado CS](#)

QANTA [defeats Ken Jennings](#), 300-160

QANTA quiz bowl system [exhibition match](#) against a team of four former Jeopardy champions in May 2015 (result: 200-200 tie)