

MANDAR JOSHI

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PROFILE

I'm a PhD student in the natural language processing (NLP) group at the Paul G. Allen School of Computer Science & Engineering at the University of Washington. I'm advised by Luke Zettlemoyer and Dan Weld. My research interests are centered around building large-scale self-supervised models and applying them to downstream tasks such as question-answering and summarization.

EDUCATION

Doctor of Philosophy (PhD) Computer Science & Engineering University of Washington, Seattle Advisers: Luke Zettlemoyer and Dan Weld Research: Natural Language Processing	2015 - Present
Master of Technology Computer Science & Engineering Indian Institute of Technology (IIT) Bombay	2012 - 2014
Bachelor of Technology Computer Science & Engineering National Institute of Technology (NIT) Nagpur	2008 - 2012

EMPLOYMENT

- **Facebook AI Research (FAIR)**
Visiting Researcher, May 2020 - Present
Pre-training and few-shot learning for natural language processing.
- **Google**
Research Intern, June 2019 - September 2019
Integrating background knowledge for reading comprehension.
- **Facebook AI Research (FAIR)**
Student Researcher, October 2018 - June 2019
Pre-training methods for natural language processing.
- **Allen Institute for Artificial Intelligence (AI2)**
Research Intern, September 2017 - December 2017
Interpretable methods for question answering.
- **IBM Research**
Software Engineer, August 2014 - May 2015
Research and software development in natural language processing.

PUBLICATIONS

- Armen Aghajanyan, Dmytro Okhonko, Mike Lewis, **Mandar Joshi**, Hu Xu, Gargi Ghosh, Luke Zettlemoyer. HTLM: Hyper-Text Pre-Training and Prompting of Language Models. *ArXiv:2107.06955, 2021*.
- Weijia Shi, **Mandar Joshi**, Luke Zettlemoyer. DESCGEN: A Distantly Supervised Dataset for Generating Abstractive Entity Descriptions. *In ACL 2021*.
- Arie Cattan, Alon Eirew, Gabriel Stanovsky, **Mandar Joshi**, Ido Dagan. Cross-document Coreference Resolution over Predicted Mentions. *In ACL 2021 Findings (Short)*.
- Terra Blevins, **Mandar Joshi**, Luke Zettlemoyer. FEWS: Large-Scale, Low-Shot Word Sense Disambiguation with the Dictionary. *In EACL 2021*.
- Bhargavi Paranjape, **Mandar Joshi**, John Thickstun, Hannaneh Hajishirzi, Luke Zettlemoyer. An Information Bottleneck Approach for Controlling Conciseness in Rationale Extraction. *In EMNLP 2020*.
- **Mandar Joshi**, Kenton Lee, Yi Luan, Kristina Toutanova. Pretraining Contextualized Representations Using Textual Encyclopedic Knowledge. *ArXiv:2004.12006, 2020*.

- Yinhan Liu, Myle Ott, Naman Goyal, Jingfei Du, **Mandar Joshi**, Danqi Chen, Omer Levy, Mike Lewis, Luke Zettlemoyer, Veselin Stoyanov. RoBERTa: A Robustly Optimized BERT Pretraining Approach. *ArXiv:1907.11692, 2019*.
- **Mandar Joshi**, Danqi Chen, Yinhan Liu, Daniel S. Weld, Luke Zettlemoyer, Omer Levy. SpanBERT: Improving Pre-training by Representing and Predicting Spans. *In TACL 2019*.
- **Mandar Joshi**, Omer Levy, Daniel S. Weld, Luke Zettlemoyer. BERT for Coreference Resolution: Baselines and Analysis. *In EMNLP 2019 (Short)*.
- **Mandar Joshi**, Eunsol Choi, Omer Levy, Daniel S. Weld, Luke Zettlemoyer. pair2vec: Compositional Word-Pair Embeddings for Cross-Sentence Inference. *In NAACL 2019*.
- **Mandar Joshi**, Eunsol Choi, Daniel S. Weld, Luke Zettlemoyer. TriviaQA: A Large Scale Distantly Supervised Challenge Dataset for Reading Comprehension. *In ACL 2017*.
- **Mandar Joshi**, Uma Sawant, Soumen Chakrabarti. Knowledge Graph and Corpus Driven Segmentation and Answer Inference for Telegraphic Entity-seeking Queries. *In EMNLP 2014*.
- **Mandar Joshi**, Rakesh Khobragade, Saurabh Sarda, Umesh Deshpande, Shiwali Mohan. Object-Oriented Representation and Hierarchical Reinforcement Learning in Infinite Mario. *In ICTAI 2012*.

AWARDS AND HIGHLIGHTS

- Invited talk on “Efficient Scalable Pre-training for Natural Language Processing” at **KDD 2020 Deep Learning Day**.
- Awarded **Microsoft Endowment Fellowship** for the academic year 2015-2016.
- **All India Rank 2** in GATE (Graduate Aptitude Test in Engineering) 2012 amongst 150,000 applicants. The test is conducted by IITs for admission into their graduate programs.

SERVICE AND COURSES

- *Service*: Program committee for ACL, EMNLP, and NAACL conferences.
- *Graduate Teaching Assistant*: Natural Language Processing (Autumn 2018), Web Search and Mining (Autumn 2013), Computer Programming (Autumn 2012 and Spring 2013).
- *Selected Graduate Coursework*: Natural Language Processing, Machine Learning, Implementation Techniques in Relational Databases, Advanced Machine Learning, Web Search and Mining, Organization of Web Information, Convex Optimization, Computer Vision.