

# Harsh TRIVEDI

Website: <http://harshtrivedi.me> Github: <https://github.com/harshtrivedi>

## RESEARCH INTERESTS

**Broad:** Natural Language Processing, Machine Learning, Deep Learning

**Specific:** Question Answering, Model Robustness and Generalization, Transfer Learning

## EDUCATION

**PhD in Computer Science**, Stony Brook University, US (GPA: 4.0/4.0) JAN'19- PRESENT

*Research Focus:* Multihop Reasoning, Model Robustness and Generalization

*Advisor:* Professor Niranjana Balasubramanian

**M.S in Computer Science**, Stony Brook University, US (GPA: 4.0/4.0 ) JAN'17- DEC'18

*Relevant Courses:* Natural Language Processing, Machine Learning, Convex Optimization, Probability and Statistics for Data Science, Computer Vision, Computing with Logic

*Thesis:* Information Aggregation for Question Answering and Natural Language Inference

*Advisor:* Professor Niranjana Balasubramanian

**B. Tech in Information & Communication Technology**, AUG'12-MAY'16

Dhirubhai Ambani Institute of Information & Communication Technology, India (GPA: 8.23/10)

*Relevant Courses:* Information Retrieval, Data Mining, Data Structures and Algorithms

*Final Project:* Automatic Pseudo Relevance Label Generation for Learning to Rank

*Advisor:* Professor Prasenjit Majumder

## RESEARCH PAPERS

**Measuring and Reducing Non-Multifaceted Reasoning in Multi-hop Question Answering** 2020

Conference on Empirical Methods in Natural Language Processing (EMNLP 2020)

H. Trivedi, N. Balasubramanian, T. Khot, A. Sabharwal

**DeFormer: Decomposing Pre-trained Transformers for Faster Question Answering** 2020

Annual Meeting of the Association for Computational Linguistics (ACL 2020)

H. Kwon, H. Trivedi, T. Khot, A. Sabharwal, N. Balasubramanian

**Repurposing Entailment for Multi-Hop Question Answering Tasks** 2019

North American Chapter of the Association for Computational Linguistics (NAACL 2019)

H. Trivedi, H. Kwon, T. Khot, A. Sabharwal, N. Balasubramanian

**Controlling Information Aggregation for Complex Question Answering** 2018

European Conference on Information Retrieval (ECIR 2018)

H. Kwon, H. Trivedi, P. Jansen, M. Surdeanu, N. Balasubramanian

**Noise Correction in Pairwise Document Preferences for Learning to Rank** 2016

Asia Information Retrieval Societies (AIRS 2016) H. Trivedi, P. Majumder

**Author Masking through Translation** 2016

Conference and Labs of the Evaluation Forum (CLEF 2016) Y. Keswani, H. Trivedi, P. Mehta, P. Majumder

**A New Approach to Syllabification of Words in Gujarati** 2015

Mining Information & Knowledge Exploration (MIKE 2015) H. Trivedi, A. Patel, P. Majumder

## RESEARCH INTERNSHIPS

**Courant Institute, New York University** JUN'20-AUG'19

Visiting Researcher in ML2 lab under Sam Bowman

**Allen Institute of Artificial Intelligence (AI2)** MAR'19-JULY'19

Research Intern in Aristo team under Ashish Sabharwal and Tushar Khot

## GRADUATE TEACHING ASSISTANTSHIP

**Natural Language Processing, Stony Brook** AUG'20-DEC'19

Designed and implemented several coding assignments (in TF2.0) on training word embeddings, sequence classification, model probing and dependence parsing.

## PROFESSIONAL SERVICE

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**Program Committee / Reviewer:** CoNLL'19, EMNLP'20, AAAI'21

**Secondary Reviewer:** AAAI'19, ACL'19, EMNLP'19

## AWARDS AND ACHIEVEMENTS

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- Topped Natural Language Processing and Convex Optimization courses at Stony Brook University.
- Stood 1st in In-Class kaggle competition hosted in Machine Learning course at Stony Brook University.
- Ranked 6186 among 1.2M students (top 0.5%), All India Engineering Entrance Examination (AIEEE), 2012.
- 1st prize in National and State competition of Mental Arithmetic (ALOHA) [2009].
- 3rd prize in National drawing competition held by Department of Post, India [2008].
- 1st prize in drawing competition held by Forest Department, Gujarat. [2007].

## PAST ACTIVITIES

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- Contributed to [AllenNLP](#), an open-source framework build on pytorch for NLP research.
- Led web development of a social networking platform (college startup) for two years during undergrad.
- Developed FIRE 2015/16 conference [website](#) with content management system for easy maintainability.

## TECHNICAL SKILLS

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**Languages:** Python, Ruby, HTML and Javascript

**Frameworks:** Pytorch, Tensorflow, AllenNLP, Panda and Scikit-learn