

KALPESH KRISHNA

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EDUCATION

University of Massachusetts, Amherst

Sept '18 - Present

MS/PhD in Computer Science

(advised by [Prof. Mohit Iyyer](#))

Major GPA: 4.0/4.0

Indian Institute of Technology, Bombay

July '14 - July '18

B.Tech in Electrical Engineering, *Minor* in Computer Science

(advised by [Prof. Preethi Jyothi](#))

Major GPA: 9.74/10 (**2nd** among 66 students), Minor GPA: 10/10

INTERNSHIPS

Google Brain (*upcoming*)

May '20 - August '20

Research Intern under [Aurko Roy](#)

Mountain View, CA

Google AI Language

May '19 - September '19

Research Intern under [Gaurav Singh Tomar](#) and [Ankur Parikh](#)

New York, NY

Toyota Technological Institute at Chicago

May '17 - July '17

Research Intern under [Karen Livescu](#), [Liang Lu](#) and [Kevin Gimpel](#)

Chicago, IL

Mozilla Foundation

May '16 - August '16

Google Summer of Code Intern under [Armen Zambrano](#)

Mumbai, India / London, UK

RESEARCH PAPERS

- [Thieves on Sesame Street! Model Extraction of BERT-based APIs](#)
K. Krishna, G.S. Tomar, A.P. Parikh, N. Papernot, M. Iyyer
ICLR 2020
- [Generating Question-Answer Hierarchies](#)
K. Krishna, M. Iyyer
ACL 2019
- [Syntactically Supervised Transformers for Faster Neural Machine Translation](#)
N. Akoury, **K. Krishna**, M. Iyyer
ACL 2019
- [Trick or TReAT: Thematic Reinforcement for Artistic Typography](#)
P. Tendulkar, **K. Krishna**, R. Selvaraju, D. Parikh
ICCC 2019 (*Best Presentation Award*)
- [Revisiting the Importance of Encoding Logic Rules in Sentiment Classification](#)
K. Krishna, P. Jyothi, M. Iyyer
EMNLP 2018 (*oral presentation*, short paper)

¹Use the URL martiansideofthemoon.github.io in case [hyperlinks](#) do not work

- [Hierarchical Multitask Learning for CTC-based Speech Recognition](#)
K. Krishna, S. Toshniwal, K. Livescu
- [A Study of All-Convolutional Encoders for Connectionist Temporal Classification](#)
K. Krishna, L. Lu, K. Gimpel, K. Livescu
ICASSP 2018 (*Awarded SPS Travel Grant*)

SOFTWARE PAPERS

- [SunPy: A Python package for Solar Physics](#)
S.J. Mumford and others
JOSS 2020

AWARDS

- Victor Lesser Graduate Scholarship 2019 at UMass Amherst
- **Sharad Maloo Memorial Gold Medal 2018** at IIT Bombay
(*For outstanding academic and extra-curricular achievements*)
- UMass CICS Graduate Fellowship 2018
- Cargill Global Scholarship 2016-18
(*Awarded by the [IIE](#) and [Cargill Inc](#) for academic achievements and leadership potential*)
- Institute Organizational Color 2016-17 at IIT Bombay
(*For achievements while leading the Web and Coding Club*)
- Institute Academic Prize 2015-16 at IIT Bombay

INVITED TALKS

- IBM Research, April 2020
(*On model extraction attacks on BERT-based APIs*)
- AllenNLP Summit at AI2, August 2019
(*Lightning talk on using AllenNLP for [education](#)*)
- UMass Data Science Research Symposium, April 2019
(*On hierarchical question-answer generation*)
- IIT Bombay Computer Science Cybersecurity Club Seminar, April 2018
(*On adversarial examples for machine learning*)
- IIT Bombay BioBytes Seminar, February 2018
(*On end-to-end speech recognition*)
- IIT Bombay Web and Coding Club Reflections Seminar, February 2018
(*On end-to-end speech recognition*)

RESPONSIBILITIES

- **Co-organizing** a weekly talk series “Machine Learning and Friends Lunch” at UMass Amherst
- **Mentoring** two UMass undergraduates (Jack Merullo, Luke Yeh) on their honors thesis (2019-) and student teams for the industrial mentorship projects (COMPSCI 696) in Spring 2019, 2020.

- **Graduate Teaching Assistant** at UMass Amherst in *Deep Learning for NLP* (2019)
- **Institute Student Mentor** at IIT Bombay (2017-18)
- **Manager, Web and Coding Club** at IIT Bombay (2016-17)
- **Teaching Assistant** at IIT Bombay in *Computer Programming* (2016) and *Linear Algebra* (2017)
- **Web Coordinator** for Mood Indigo 2016 at IIT Bombay

ACADEMIC SERVICE

- **Program Committee / Reviewer** for IJCV '19; EMNLP '19, '20; ACL SRW '19, '20; ACL '20
- **Secondary Reviewer** for ACL '19, NAACL '19, ICLR '19
- **Student Volunteer** at ACL '19, ICLR '20. Also awarded the [ACL 2019 Student Scholarship](#)

OTHER ACHIEVEMENTS

- Selected for [JSALT '17](#), organized by JHU's [Center for Language and Speech Processing](#)²
- **Top 10** at the Astronomy Olympiad's Indian Selection Camp for IOAA '14, (*20000 candidates*)
- All India Rank 93 in [JEE Advanced](#) '14 (*out of 126,000 candidates*)
All India Rank 34 in [JEE Mains](#) '14 (*out of 1,400,000 candidates*)
All India Top 100 in [CBSE XII](#) '14 (*out of 1,000,000 candidates*)
All India Rank 2 in [ICSE](#) '12 (*out of 132,000 candidates*)
Awarded by Pune city institutions for being the city topper in each of these exams
- Passed the [National Standard Exam in Physics](#) '14 and [National Standard Exam in Chemistry](#) '14, the first rounds in the Indian selection procedure for the International Physics Olympiad and the International Chemistry Olympiad respectively
- Selected for the [Kishore Vaigyanik Protsahan Yojana](#) (KVPY) Award '14 (1,000/20,000 applicants)

EXTRA-CURRICULAR

- **Blogging** - Active [blogger](#) on graduate school applications, biking and computer science
- Led the development of a [beginner's programming wiki](#) with the Web and Coding Club, IIT Bombay
- **StackOverflow** - Active [contributor](#), top 8% overall
- **Open Source** - Actively [contributed](#) to Mozilla in 2015-16 including [QoC 2015](#), [GSoC 2016](#)
- **Karate** - Black Belt (1st Dan) trained in Kyokushin Kai for seven years, district level winner
- **Abacus & Mental Arithmetic** - [Aloha](#) grandmaster, national and state level winner

²Couldn't attend due to clashing college schedule