

# KALPESH KRISHNA

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## EDUCATION

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**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 (**2<sup>nd</sup>** among 66 students), Minor GPA: 10/10

## INTERNSHIPS

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**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

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- [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)

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<sup>1</sup>Use the URL [martiansideofthemoon.github.io](https://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

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

## AWARDS

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- 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

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- IBM Research, April 2020  
(*On model extraction attacks on BERT-based APIs*)
- AllenNLP Summit, 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

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- **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-)
- **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)

## ACADEMIC SERVICE

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

## OTHER ACHIEVEMENTS

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- Selected for [JSALT '17](#), organized by JHU's [Center for Language and Speech Processing](#)<sup>2</sup>
- **Top 10** at the Astronomy Olympiad's Indian Selection Camp for IOAA '14, (20000 applicants)
- 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

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- **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
- **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

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<sup>2</sup>Couldn't attend due to clashing college schedule