

# Archiki PRASAD

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## RESEARCH INTERESTS

My research goal is to make natural language processing systems more scalable, robust, and interpretable.

**Major Interests:** Robustness, Interpretability, Explainability, Prompt-based Learning

**Other Interests:** Fairness, Self-Supervised Learning, Commonsense Reasoning, Multilinguality.

## EDUCATION

Present Aug 2021	The University of North Carolina, CHAPEL HILL, Ph.D. in Computer Science   Advisor: <a href="#">Mohit Bansal</a> Concentration: Natural Language Processing
May 2021 August 2016	Indian Institute of Technology Bombay, MAHARASHTRA, India Bachelor + Master of Technology, Major: Electrical Engineering   GPA: 9.64/10 Minor: Computer Science and Engineering

## EXPERIENCE

Present Aug 2021	UNC-NLP Research Group, UNC CHAPEL HILL, US Research Assistant   Supervisor: Prof. <a href="#">Mohit Bansal</a> ➢ Working on prompt-based learning methods
May 2021 Aug 2019	Computational Speech And Language Technologies (CSALT) Lab, IIT BOMBAY, India Research Assistant   Advisor: Prof. <a href="#">Preethi Jyothi</a> ➢ Intermediate-task training for natural language understanding tasks in code-switched languages ➢ Probing accent information in black-box end-to-end automatic speech recognition systems ➢ Joint noise and accent robustness in automatic speech recognition systems
Jan 2021 Jan 2020	Indian Institute of Technology Bombay, MAHARASHTRA, India Research Assistant   Advisor: Prof. <a href="#">Sharayu Moharir</a> ➢ Worked on designing scheduling policies using multi-armed bandits
Jul 2019 May 2019	Adobe Research, BANGALORE, India Research Intern   Advisor: Dr. <a href="#">Shiv Kumar Saini</a> ➢ Worked on time-series forecasting in low/zero-data settings using memory-augmented networks

## PUBLICATIONS

2021 Archiki Prasad\*, Mohammad Ali Rehan\*, Shreya Pathak\*, Preethi Jyothi “The Effectiveness of Intermediate-Task Training for Code-Switched Natural Language Understanding” In Proceedings of the 2021 Workshop on Multilingual Representation Learning (MLR 2021) at EMNLP 2021 [PDF] ([Best Paper Honorable Mention](#))

2021 Archiki Prasad, Preethi Jyothi, and Rajbabu Velmurugan “An Investigation of End-to-End Models for Robust Speech Recognition” In Proceedings of the 2021 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2021) [PDF]

2021 Archiki Prasad, Vishal Jain, and Sharayu Moharir “Decentralized Age-of-Information Bandits” In Proceedings of the 2021 IEEE Wireless Communications and Networking Conference (WCNC 2021) [PDF]

2020 Archiki Prasad, and Preethi Jyothi “How Accents Confound: Probing for Accent Information in End-to-End Speech Recognition Systems” In Proceedings of the 2020 Annual Conference of the Association for Computational Linguistics (ACL 2020) [PDF]

2020 Ayush Chauhan, Archiki Prasad, Parth Gupta, Amireddy Prashanth Reddy, and Shiv Kumar Saini “Time Series Forecasting for Cold-Start Items by Learning from Related Items using Memory Networks” In Companion Proceedings of the Web Conference 2020 (WWW 2020) [PDF]

## PATENTS

2020 Ayush Chauhan, Shiv Kumar Saini, Parth Gupta, Archiki Prasad, Amireddy Prashanth Reddy, Ritwick Chaudhry “Key-value memory network for predicting time-series metrics of target entities” US Patent and Trademarks Office 2020 | Adobe Inc. [APPLICATION NO. US16/868942]

## PROFESSIONAL SERVICES

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### Conference Reviewer

- › EMNLP 2021
- › ACL 2021 (ACL Rolling Review)
- › NAACL 2021 (ACL Rolling Review)

## SCHOLASTIC ACHIEVEMENTS AND AWARDS

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- › IIT Bombay Institute Academic Prize for outstanding performance in the academic year 2019-20
- › Amongst top 1.2% of all selected candidates (200,000) JEE-Advance 2016.
- › Amongst top 0.1% of all candidates in JEE-Mains 2016.
- › Google participation award for MRL 2021.
- › Selected to attend the Natural Language Understanding track of the Google AI summer school conducted by Google Research India
- › Advanced Performer's grade (about top 1% of class) in Linear Algebra and Economics

## RELEVANT COURSEWORK

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\* = Graduate Level Courses

**Mathematics:** Linear Algebra\*, Real Analysis, Complex Analysis, Multivariate Calculus, Differential Equations

**Computer Science:** Computer Programming, Data Structures and Algorithms, Operating Systems, Computer Organization, Digital Logic

**Machine Learning:** Machine Learning\*, Structured Prediction\*, Language and Learning\*, Information Theory and Coding\*, Automatic Speech Recognition\*, Natural Language Processing (online), Digital Image Processing

**Probability and Statistics:** Probability and Random Processes, Data Analysis and Interpretation, Concentration Inequalities\*

## SKILLS

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**Programming Languages:** C/C++, Python, R, bash, HTML

**SW/ Tools:** MATLAB, Scilab, Git, Docker,  $\text{\LaTeX}$ , Arduino, Quartus

**ML Libraries:** TensorFlow, PyTorch, Keras, NumPy, OpenCV, Pandas, Scikit Learn