



# Archiki PRASAD

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## RESEARCH INTERESTS

My research goal is to build natural language processing systems that can reason in an efficient, robust, and interpretable manner.

**Major Interests:** Reasoning, Post-Training, Reward Modeling, Self-Supervised Learning.

**Other Interests:** Compositional Learning, Robustness, Explainability.

## EDUCATION

Present Aug 2021	<b>The University of North Carolina, CHAPEL HILL, USA</b> <i>Ph.D. in Computer Science</i>   Advisor: <a href="#">Mohit Bansal</a> Concentration: Natural Language Processing
May 2021 August 2016	<b>Indian Institute of Technology Bombay, MAHARASHTRA, India</b> Bachelor + Master of Technology, Major: Electrical Engineering   GPA: 9.66/10 Minor: Computer Science and Engineering

## EXPERIENCE

Aug 2025 May 2025	<b>Google DeepMind, SEATTLE, US</b> <i>Student Researcher</i>   Advisors: <a href="#">Pete Shaw</a> , <a href="#">Kenton Lee</a> , <a href="#">Mandar Joshi</a> ‣ Developing metrics to evaluate and measure the utility of chain-of-thought rationales
Aug 2024 May 2024	<b>Fundamental AI Research Labs, Meta, NEW YORK CITY, US</b> <i>Research Scientist Intern</i>   Advisors: <a href="#">Jason Weston</a> , <a href="#">Maryam Fazel-Zarandi</a> ‣ Enabling LLMs to learn to reason in an iterative and unsupervised manner
Aug 2023 May 2023	<b>Allen Institute of Artificial Intelligence (AI2), SEATTLE, US</b> <i>Research Intern</i>   Advisors: <a href="#">Tushar Khot</a> , <a href="#">Ashish Sabharwal</a> , <a href="#">Peter Clark</a> ‣ Designed an adaptive task decomposition framework for LLM agents on interactive tasks
Aug 2022 May 2022	<b>Adobe Research, SAN JOSE (REMOTE), US</b> <i>Research Scientist Intern (NLP)</i>   Advisors: <a href="#">Trung Bui</a> , <a href="#">David Yoon</a> , <a href="#">Franck Dernoncourt</a> ‣ Developed a challenging benchmark on extracting question-answer pairs from meeting transcripts

## PUBLICATIONS

2025 Archiki Prasad, Elias Stengel-Eskin, Justin Chih-Yao Chen, Zaid Khan, Mohit Bansal “*Learning to Generate Unit Tests for Automated Debugging*” In Proceedings of the Second Conference of Language Modeling (COLM 2025) [PDF]

2025 Archiki Prasad, Weizhe Yuan, Richard Yuanzhe Pang, Jing Xu, Maryam Fazel-Zarandi, Mohit Bansal, Sainbayar Sukhbaatar, Jason Weston, Jane Yu “*Self-Consistency Preference Optimization*” In Proceedings of the forty-second International Conference on Machine Learning (ICML 2025) [PDF]

2025 Swarnadeep Saha, Archiki Prasad, Justin Chih-Yao Chen, Peter Hase, Elias Stengel-Eskin, Mohit Bansal “*System-1.x: Learning to Balance Fast and Slow Planning with Language Models*” In Proceedings of the thirteenth International Conference on Learning Representations (ICLR 2025) [PDF]

2025 Duy Nguyen\*, Archiki Prasad\*, Elias Stengel-Eskin, Mohit Bansal “*LASER: Learning to Adaptively Select Reward Models with Multi-Armed Bandits*” In Proceedings of the Annual Conference on Neural Information Processing Systems (NeurIPS 2025) [PDF]

2025 Han Wang, Archiki Prasad, Elias Stengel-Eskin, Mohit Bansal “*Retrieval-Augmented Generation with Conflicting Evidence*” In Proceedings of the Second Conference of Language Modeling (COLM 2025) [PDF]

2025 Han Wang, Archiki Prasad, Elias Stengel-Eskin, Mohit Bansal “*ADACAD: Adaptively Decoding to Balance Conflicts between Contextual and Parametric Knowledge*” In Proceedings of the North American Chapter of the Association for Computational Linguistics (NAACL 2025) [PDF]

2024 Elias Stengel-Eskin\*, Archiki Prasad\*, Mohit Bansal “*REGAL: Refactoring Programs to Discover Generalizable Abstractions*” In Proceedings of the forty-first International Conference on Machine Learning (ICML 2024) [PDF]

2024 Archiki Prasad, Elias Stengel-Eskin, Mohit Bansal “*Rephrase, Augment, Reason: Visual Grounding of Questions for Vision-Language Models*” In Proceedings of the twelfth International Conference on Learning Representations (ICLR 2024) [PDF]

2024 Archiki Prasad, Alexander Koller, Mareike Hartmann, Peter Clark, Ashish Sabharwal, Mohit Bansal, Tushar Khot “*ADAPT: As-Needed Decomposition and Planning with Language Models*” In Findings of Conference of the North American Chapter of the Association for Computational Linguistics (Findings of NAACL 2024) [PDF]

2024 Han Wang\*, **Archiki Prasad\***, Elias Stengel-Eskin\*, Mohit Bansal “*Soft Self-Consistency Improves Language Model Agents*” In Proceedings of the Annual Conference of the Association for Computational Linguistics (**ACL 2024**) [[PDF](#)]

2024 Justin Chih-Yao Chen, **Archiki Prasad**, Swarnadeep Saha, Elias Stengel-Eskin, Mohit Bansal “*MAGICoRE: Multi-Agent, Iterative, Coarse-to-Fine Refinement for Reasoning*” In Proceedings of the Conference on Empirical Methods in Natural Language Processing (**EMNLP 2025**) [[PDF](#)]

2023 **Archiki Prasad**, Swarnadeep Saha, Xiang Zhou, Mohit Bansal “*RECEVAL: Evaluating Reasoning Chains via Correctness and Informativeness*” In Proceedings of Conference on Empirical Methods in Natural Language Processing (**EMNLP 2023**) [[PDF](#)]

2023 **Archiki Prasad**, Trung Bui, Seunghyun Yoon, Hanieh Deilamsalehy, Franck Dernoncourt, Mohit Bansal “*MEETINGQA: Extractive Question-Answering on Meeting Transcripts*” In Proceedings of the Annual Conference of the Association for Computational Linguistics (**ACL 2023**) [[PDF](#)]

2023 **Archiki Prasad**, Peter Hase, Xiang Zhou, Mohit Bansal “*GRIPS: Gradient-free, Edit-based Instruction Search for Prompting Large Language Models*” In Proceedings of the Conference of the European Chapter of the Association for Computational Linguistics (**EACL 2023**) [[PDF](#)]

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 Workshop on Multilingual Representation Learning (**MRL 2021**) at EMNLP 2021 [[PDF](#)] (**Best Paper Honorable Mention**)

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

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

2020 **Archiki Prasad**, 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, 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](#)]

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## PATENTS

2022 Ayush Chauhan, Shiv Kumar Saini, Parth Gupta, **Archiki Prasad**, Amireddy Prashanth Reddy, and Ritwick Chaudhry “*Key-value memory network for predicting time-series metrics of target entities*” US Patent and Trademarks Office 2022 | Adobe Inc. [[US11501107](#)]

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## HONORS AND AWARDS

- Recipient of the **2025 Apple Scholars in AI/ML PhD fellowship**, awarded to 21 students worldwide, with full funding for up to 2 years
- IIT Bombay Institute Academic Prize for outstanding performance in the academic year 2019-20
- Secured an all India rank of 144 in JEE-Main 2016 out of roughly 10 million applicants.
- Amongst top 1.2% of all selected candidates (200,000) JEE-Advance 2016.

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## PROFESSIONAL SERVICES

### Conference Reviewer

- ICLR 2024-2026
- ACL 2022-2025, EMNLP 2021-2025, NAACL 2022-2025 (ACL Rolling Review)
- ICML, COLM, NeurIPS, AAAI 2025

### Journal Reviewer

- TACL 2025

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## REFERENCES

- [Mohit Bansal](#), John R. Louise S. Parker Professor of CS, UNC Chapel Hill.
- [Jason Weston](#), Senior Director Research Scientist, FAIR, Meta, NYC.
- [Tushar Khot](#), Member of Technical Staff, Microsoft AI, Seattle.