

# Rohan Jha

MASTER'S STUDENT IN COMPUTER SCIENCE · THE UNIVERSITY OF TEXAS AT AUSTIN

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## Education

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### University of Texas at Austin

Austin, Texas

M.S. COMPUTER SCIENCE

2023 - 2025\*

- \*Expected Graduation: May 2025
- GPA: 4.0/4.0

### Carnegie Mellon University

Pittsburgh, Pennsylvania

B.S. ARTIFICIAL INTELLIGENCE

2019-2023

- Program Advisor: Prof. Reid Simmons
- Research Advisor: Prof. Jamie Callan
- GPA: 3.91/4.0

## Professional Experience

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2024 **Model Training Intern**, Department of Embedding Technology, Jina AI

2022 **Software Engineer Intern**, Ads Core ML, Meta

2021-2022 **Undergraduate Research Assistant**, Language Technologies Institute, Carnegie Mellon University

2021-2022 **Undergraduate Teaching Assistant**, Computer Science Department, Carnegie Mellon University

2021 **Software Development Engineer Intern**, Prime Video Ads, Amazon

## Publications

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### PUBLISHED

Luís Borges, **Rohan Jha**, Jamie Callan, Bruno Martins. 2024. Generalizable Tip-of-the-Tongue Retrieval with LLM Re-ranking. Proceedings of the 47th International ACM SIGIR Conference on Research and Development in Information Retrieval

Zhen Fan, Luyu Gao, **Rohan Jha**, and Jamie Callan. 2023. COILCR: Efficient Semantic Matching in Contextualized Exact Match Retrieval. Advances in Information Retrieval (ECIR).

### IN REVIEW

**Rohan Jha**, Bo Wang, Michael Günther, Georgios Mastrapas, Saba Sturua, Isabelle Mohr, Andreas Koukounas, Mhoammad Kalim Akram, Nan Wang, and Han Xiao. 2024. Jina-ColBERT-v2: A General-Purpose Multilingual Late Interaction Retriever.

## Awards

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2023 **Phi Beta Kappa Honors**, The Phi Beta Kappa Society

2020-2023 **Dean's List Honors**, School of Computer Science, Carnegie Mellon University

2024 **SIGIR 2024 NSF Student Travel Award**, SIGIR, NSF

\$1,200

## Presentations

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### INVITED TALKS

Fall 2022. *Contrastive Learning for Recommendation Systems*. Invited talk: Meta Ads Core ML Reading Group, Palo Alto, CA.

### CONTRIBUTED PRESENTATIONS

**Rohan Jha**, Luís Borges. 2023. *A Multi-Stage Pipeline for Tabular QA on HybridQA*. 11-797: Question Answering Final Presentation: Language Technologies Institute, Pittsburgh, PA.

## Teaching Assistant Experience

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- F21, S22 **15-281: AI: Representation and Problem Solving**, Prof. Stephanie Rosenthal *CMU*  
S21 **07-180: Concepts of Artificial Intelligence**, Prof. Reid Simmons *CMU*

## Research Experience

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- Jina AI** *Berlin, GER*  
ADVISOR: BO WANG *Summer 2024*  
• Internship Project: “Jina ColBERT v2”
- University of Texas at Austin** *Austin, TX*  
ADVISOR: PROF. GREG DURRETT *Spring 2024*  
• CS 388: NLP Project: “Lightweight & Consistent: Synthetic Query Pipelines for Small IR Model Transfer”
- University of Texas at Austin** *Austin, TX*  
ADVISOR: PROF. EUNSOL CHOI *Fall 2023*  
• CS 395T: Topics in NLP Project: “Further Exploration of Batch Prompting” with Alex Chandler
- Carnegie Mellon University - Language Technologies Institute** *Pittsburgh, PA*  
ADVISORS: PROF. TERUKO MITAMURA AND PROF. ERIC NYBERG *Spring 2023*  
• 11-797: Question Answering Project: “A Multi-Stage Pipeline for Tabular QA on HybridQA” with Luís Borges
- Carnegie Mellon University - Language Technologies Institute** *Pittsburgh, PA*  
ADVISOR: PROF. JAMIE CALLAN *Dec. 2021 - Dec. 2022*  
• Independent Research Projects: “Distributional Analysis and Dynamic Cluster Parameter Selection in COILCR” and “Hard Negative Choices for COILCR” with Zhen Fan and Luyu Gao