

## RESEARCH SUMMARY

I am a computer science Ph.D. candidate at the University of Maryland, advised by Professors Jordan Boyd-Graber and Rachel Rudinger. I mostly work in Natural Language Processing, with a sprinkle of Human-Computer Interaction and Machine Learning. I am broadly interested in building text generation and question answering systems that help users achieve their goals, with a focus on improving factuality, reasoning, preference learning, alignment, and evaluations.

## EDUCATION

- **University of Maryland, College Park (UMD)** College Park, MD  
Ph.D. Computer Science; GPA: 4.00/4.00 Aug 2023 - May 2027 (Expected)  
**Advisors:** Jordan Boyd-Graber, Rachel Rudinger  
**Thesis (Proposed):** Teaching AI to Answer Questions with Reasoning that Actually Helps You  
**Committee:** Jordan Boyd-Graber, Rachel Rudinger, Shi Feng, Fumeng Yang, David Weintrop
- **New York University** New York City, NY  
Visiting Student Aug 2025 - May 2026  
**Host:** Eunsol Choi
- **University of Illinois at Urbana-Champaign (UIUC)** Urbana, IL  
B.S. Computer Science; B.S. Statistics (Dual Degree); GPA: 4.00/4.00 Aug 2019 - May 2023  
**Collaborators:** Kevin Chen-Chuan Chang, Jiawei Han, Hari Sundaram, Diyi Yang

## CONFERENCE PAPERS

\* denotes equal contribution, † denotes mentored student

1. Which of These Best Describes Multiple Choice Evaluations? A) Forced B) Flawed C) Fixable D) All of the Above  
ACL 2025, **Oral and Best Paper Nomination, Best Paper Award at MASC-SLL 2025**  
**Nishant Balepur**, Rachel Rudinger, Jordan Boyd-Graber  
**Selected:** We critique multiple-choice evaluations with LLMs, and propose solutions from education to remedy them
2. Whose Boat Does it Float? Improving Personalization in Preference Tuning via Inferred User Personas  
ACL 2025  
**Nishant Balepur**, Vishakh Padmakumar, Fumeng Yang, Shi Feng, Rachel Rudinger, Jordan Boyd-Graber
3. Reverse Question Answering: Can an LLM Write a Question so Hard (or Bad) that it Can't Answer?  
NAACL 2025, **Oral**  
**Nishant Balepur**, Feng Gu, Abhilasha Ravichander, Shi Feng, Jordan Boyd-Graber, Rachel Rudinger
4. MoDS: Moderating a Mixture of Document Speakers to Summarize Debatable Queries in Document Collections  
NAACL 2025, **Oral**  
**Nishant Balepur**, Alexa Siu, Nedim Lipka, Franck Dernoncourt, Tong Sun, Jordan Boyd-Graber, Puneet Mathur
5. A Smart Mnemonic Sounds like Glue Tonic: Mixing LLMs with Student Feedback to Make Mnemonic Learning Stick  
EMNLP 2024  
**Nishant Balepur**, Matthew Shu, Alexander Hoyle, ..., Shi Feng, Seraphina Goldfarb-Tarrant, Jordan Boyd-Graber  
**Selected:** We use DPO to generate mnemonics aligned with what users prefer and aid learning
6. KARL: Knowledge-Aware Retrieval and Representations aid Retention and Learning in Students  
EMNLP 2024  
Matthew Shu\*†, **Nishant Balepur\***, Shi Feng\*, Jordan Boyd-Graber
7. Plausibly Problematic Questions in Multiple-Choice Benchmarks for Commonsense Reasoning  
EMNLP 2024 (Findings)  
Shramay Palta, **Nishant Balepur**, Peter Rankel, Sarah Wiegrefe, Marine Carpuat, Rachel Rudinger
8. Artifacts or Abduction: How Do LLMs Answer Multiple-Choice Questions Without the Question?  
ACL 2024, **Best Paper Award at MASC-SLL 2024**  
**Nishant Balepur**, Abhilasha Ravichander, Rachel Rudinger  
**Selected:** We discover LLMs score highly in MCQA benchmarks without the question, and analyze how
9. It's Not Easy Being Wrong: Large Language Models Struggle with Process of Elimination Reasoning  
ACL 2024 (Findings)  
**Nishant Balepur**, Shramay Palta, Rachel Rudinger
10. Expository Text Generation: Imitate, Retrieve, Paraphrase  
EMNLP 2023, **Added to UIUC's AI Reading List for Qualifying Exams**  
**Nishant Balepur**, Jie Huang, Kevin Chen-Chuan Chang

11. Text Fact Transfer  
EMNLP 2023  
Nishant Balepur, Jie Huang, Kevin Chen-Chuan Chang

12. DynaMiTE: Discovering Explosive Topic Evolutions with User Guidance  
ACL 2023 (Findings)  
Nishant Balepur\*, Shivam Agarwal\*, Karthik Ramanan, Susik Yoon, Diyi Yang, Jiawei Han

WORKSHOP PAPERS

\* denotes equal contribution, † denotes mentored student

1. Language Models Generate Multiple-Choice Questions with Artifacts  
MASC-SLL 2025  
Atrey Desai†, Nishant Balepur, Rachel Rudinger

2. Mental Model for Machine Translation in Human-MT Scenario  
MASC-SLL 2025  
Hyojung Han, Nishant Balepur, Jordan Boyd-Graber, Marine Carpuat

3. Is Your Large Language Model Knowledgeable or a Choices-Only Cheater?  
ACL 2024 (KnowLLM Workshop)  
Nishant Balepur, Rachel Rudinger

PREPRINTS AND REPORTS

\* denotes equal contribution, † denotes mentored student

1. Can They Dixit? Yes they Can! Dixit as a Playground for Multimodal Language Model Capabilities  
Under Review (EMNLP Wordplay Workshop)  
Nishant Balepur\*, Dang Nguyen\*, Dayeon Ki\*

2. A Good Plan is Hard to Find: Aligning Models with Preferences is Misaligned with What Helps Users  
Under Review (EMNLP)  
Nishant Balepur, Matthew Shu†, ..., Shi Feng, Fumeng Yang, Rachel Rudinger, Jordan Boyd-Graber

3. Mitigating Gender-Occupation Stereotypes in Llama through Consistency-Guided Finetuning  
Under Review (EMNLP)  
Haozhe An, Nishant Balepur, Christabel Acquaye, Rachel Rudinger

4. A Survey on LLM Jailbreaking Attacks and Defenses  
Under Review (AAAI)  
Sander Schulhoff\*, Nishant Balepur\*, Arjun Akkiraju\*, Michael Ilie\*, ..., Rob Voigt, Denis Peskoff

5. The Prompt Report: A Systematic Survey of Prompting Techniques  
Preprint, [Huggingface #1 Paper of the Day](#)  
Sander Schulhoff\*, Michael Ilie\*, Nishant Balepur, ..., Shyamal Anadkat, Alexander Hoyle, Phillip Resnik

6. Mastering the ABCDs of Complex Questions: Answer-Based Claim Decomposition for Self-Evaluating LLMs  
Preprint  
Nishant Balepur, Jie Huang, Samraj Moorjani, Kevin Chen-Chuan Chang, Hari Sundaram

INDUSTRY RESEARCH EXPERIENCE

• <b>Allen Institute for AI (Ai2)</b>	Seattle, WA
• Research Scientist Intern: Semantic Scholar (Personalized QA)	May 2025 - Aug 2025
• <b>Adobe</b>	San Jose, CA
• Research Scientist Intern: Document Intelligence (Multi-LLM QA) Outcome: Patent Submission, Paper at NAACL 2025	May 2024 - Aug 2024
• <b>Meta</b>	Menlo Park, CA
• Software Engineering Intern: Facebook Creators Well-being (Comment Safety) Outcome: 15% drop in negative interactions among Facebook’s 1 billion users	May 2022 - Aug 2022

STARTUP EXPERIENCE

• <b>LearnPrompting</b>	Remote
• Contractor: Co-leading research team on LLM jailbreak competitions Designing harmfulness evaluations for HackAPrompt, lead author on two papers	Nov 2024 - Present
• <b>XpertNetwork</b>	New York City
• Consultant: Technical advice for startup using LLMs for expert network outreach	May 2025 - Present

## FELLOWSHIPS AND GRANTS

- **NSF Graduate Research Fellowship Program (GRFP)** April 2023 - April 2028  
Wrote proposal on NLP for information accessibility—\$159,000 over 3 Years of Ph.D.
- **Cohere for AI Research Grant (2x)** April 2024  
Wrote proposals on LLMs Education and HackAPrompt 2.0—full access to Cohere models
- **Dean's Fellowship** April 2023 - April 2025  
Awarded the Dean's Fellowship from UMD for outstanding academic achievement

## INVITED TALKS

- **Which of These Best Describes Multiple-Choice Evaluation with LLMs?** Vienna, Austria  
ACL 2025 Aug 2025
- **Can an LLM Write a Question so Hard (or Bad) that it Can't Answer?** Albuquerque, NM  
NAACL 2025 May 2025
- **MoDS: Summarizing Debatable Queries in Document Collections** Albuquerque, NM  
NAACL 2025 May 2025
- **Which of These Best Describes Multiple-Choice Evaluation with LLMs?** State College, PA  
Penn State University April 2025
- **Which of These Best Describes Multiple-Choice Evaluation with LLMs?** Remote  
Google Translate Reading Group March 2025
- **Aligning LLMs to Answer Questions with Reasoning That Actually Helps You** London, U.K.  
Imperial College, London March 2025
- **How Do LLMs Answer Multiple-Choice Questions Without the Question?** Baltimore, MD  
Johns Hopkins University May 2024

## AWARDS

- **MASC-SLL 2025 Best Paper Award** April 2025  
Best paper award for our MCQA Position Paper by PSU
- **MASC-SLL 2024 Best Paper Award** May 2024  
Best paper award for "Artifacts or Abduction" by JHU
- **UIUC Computer Science Graduation with Highest Honors** May 2023  
Recommended by the UIUC computer science department to graduate with highest honors
- **C.W. Gear Outstanding Undergraduate Student** May 2022  
Awarded to two seniors that have demonstrated excellence in research and service

## PROFESSIONAL SERVICE

- **Conference Reviewer** UMD  
Reviewer for: \*ACL/ARR 2023-Present, IEEE TASLP 2024, TrustNLP 2024, SRW 2025  
Great Reviewer Nomination: Apr, June (#6), Aug (#4), Oct (#2), Dec 2024, Feb 2025 ARR  
Outstanding Reviewer: EMNLP 2024 2022-2024
- **Conference Volunteer** UMD  
ACL 2023, NAACL 2025 2023, 2025
- **Visiting Student Day Volunteer** UMD  
Volunteer and ambassador for UMD's visiting student day Mar 2024, 2025
- **Winter Storm LLM Workshop** UMD  
Led a 5-day workshop on LLMs for non-CS graduate students Jan 2023
- **SIGNLL** UIUC  
President of Special Interest Group for Natural Language Learning Aug 2020 - May 2021

## STUDENT MENTEES

- **Michael Xie** (M.S. UMD), 2025-Present, LLMs for Education
- **Atrey Desai** (B.S. UMD), 2024-Present, LLM Evaluation  
One paper at MASC-SLL 2025 Workshop
- **Matthew Shu** (B.S. Yale → M.S. Yale), 2023-2025, LLMs for Education  
Two papers at EMNLP 2024 (long, main); one paper under review at EMNLP 2025 (long)
- **Jerry He** (HS Student → B.S. GTech), 2024-2025, LLMs for Education  
Submitted Project on LLMs+Education for Marriott's Ridge High School Gifted and Talented Research Program

## SKILLS

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- **Languages:** Python, JavaScript/HTML/CSS R, C++, Java, OCaml
- **Libraries:** Huggingface, Datasets, TRL, Pytorch, nltk, Spacy, BeautifulSoup