

# Nishant Balepur

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Website: nbalepur.github.io

## RESEARCH INTERESTS

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I am a first-year Ph.D. student in computer science at the University of Maryland, College Park, advised by Professors Jordan Boyd-Graber and Rachel Rudinger. I conduct research with the goal of **aligning LLMs with human values**, with a focus on **factuality** in text generation, **human-centered** frameworks, and LLM **safety** and **intepretability**. I am extremely grateful to be funded by the NSF Graduate Research Fellowship Program.

## EDUCATION

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- **University of Maryland, College Park (UMD)** College Park, MD  
Ph.D. Computer Science; GPA: 4.00/4.00 Aug 2023 - Present  
Advisors: Professors Jordan Boyd-Graber, Rachel Rudinger
- **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: Professors Kevin Chen-Chuan Chang, Jiawei Han, Hari Sundaram, Diyi Yang

## PUBLICATIONS AND WRITTEN WORK

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- Large Language Models Exploit Artifacts in Multiple-Choice Question Answering  
Under Review  
Nishant Balepur, Abhilasha Ravichander, Rachel Rudinger  
TL;DR: We discover that LLMs exploit artifacts in MCQA benchmark datasets, and analyze why
- KARL: Knowledge-Aware Retrieval and Representations aid Retention and Learning in Students  
Under Review  
Matthew Shu\*, Nishant Balepur\*, Shi Feng, Jordan Boyd-Graber  
TL;DR: We create a BERT-based flashcard scheduler to help students learn more effectively
- It's Not Easy Being Wrong: Evaluating Process of Elimination Reasoning in Large Language Models  
arXiv:2311.07532  
Nishant Balepur, Shramay Palta, Rachel Rudinger  
TL;DR: We uncover a new weakness of LLMs – reasoning toward incorrect options on multiple-choice questions
- Expository Text Generation: Imitate, Retrieve, Paraphrase  
EMNLP 2023  
Nishant Balepur, Jie Huang, Kevin Chen-Chuan Chang  
TL;DR: We design a task and model to generate multi-sentence and stylistically consistent factual texts
- Text Fact Transfer  
EMNLP 2023  
Nishant Balepur, Jie Huang, Kevin Chen-Chuan Chang  
TL;DR: We propose a complement to style transfer, where models must preserve style while transferring facts
- DynaMiTE: Discovering Explosive Topic Evolutions with User Guidance  
Findings of ACL 2023  
Nishant Balepur\*, Shivam Agarwal\*, Karthik Ramanan, Susik Yoon, Diyi Yang, Jiawei Han  
TL;DR: We build a model to mine for topics evolutions in large corpora, leveraging user-provided seed guidance
- Mastering the ABCDs of Complex Questions: Answer-Based Claim Decomposition for Self-Evaluating LLMs  
arXiv:2305.14750  
Nishant Balepur, Jie Huang, Samraj Moorjani, Kevin Chen-Chuan Chang, Hari Sundaram  
TL;DR: We study whether LLMs can perform a fine-grained form of self-evaluation
- Aligning Language Models with Factuality and Truthfulness  
Undergraduate Senior Thesis  
Nishant Balepur, Kevin Chen-Chuan Chang

## INDUSTRY EXPERIENCE

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- **Adobe** San Jose, CA  
Research Scientist Intern (Incoming) May 2024 - Aug 2024
- **Meta** Menlo Park, CA  
Software Engineering Intern May 2022 - Aug 2022
- **HiMarley** Remote  
Data Science Intern May 2021 - Aug 2021

- **State Farm** Champaign, IL  
*Actuarial and Modeling Intern* Aug 2020 - Dec 2020
- **John Deere** Remote  
*Software Engineering Intern* Jun 2020 - Aug 2020

## STUDENTS MENTORED

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- **Matthew Shu** (B.S. Yale), 2023-Present, NLP in Education  
Submitted a first-authored paper to NAACL 2024

## PROFESSIONAL SERVICE

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- **Conference Reviewer** UMD  
*Reviewer for: ACL 2023, ARR 2023/2024, LREC 2023* Jan 2023
- **Winter Storm LLM Workshop** UMD  
*Led a 5-day workshop on LLMs for non-CS graduate students* Jan 2023
- **Computer Science and Statistics Student Ambassador** UIUC  
*Mentor of new students and volunteer for computer science and statistics events* Aug 2022 - May 2023
- **SIGNLL** UIUC  
*President of Special Interest Group for Natural Language Learning* Aug 2020 - May 2021
- **Co-founder of Project: Code** UIUC  
*Co-founder of student organization to help students build computer science projects* Aug 2019 - May 2021

## HONORS AND AWARDS

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- **NSF Graduate Research Fellowship Program (GRFP)** April 2023 - April 2028  
*Provided 3 Years of Support over a 5 Year Period*
- **Dean's Fellowship** April 2023 - April 2025  
*Awarded the Dean's Fellowship from UMD for outstanding academic achievement*
- **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*
- **James N. Snyder Memorial Award** May 2021  
*Awarded to three juniors based on academic merit*