

YINING LU

yly33@nd.edu | (443) 255-3435 | [Personal Website](#) | [Linkedin](#)

EDUCATION

The University of Notre Dame (ND)

Ph.D. in Computer Science and Engineering

- Advisor: Dr. Meng Jiang
- Research Interest: Natural Language Processing, Language Model

Notre Dame, IN

Expected: May. 2029

The Johns Hopkins University (JHU)

M.S. in Data Science

Baltimore, MD

May. 2024

Kean University (WKU)

B.A. in Mathematical Science, Minor in Computer Science (Cum Laude)

Wenzhou, China

Jun. 2022

EXPERIENCE

Research Assistant

Department of Computer Science and Engineering, ND

- Researching at DM2 Lab: Data Mining towards Decision Making, advising by Dr. Meng Jiang.

Aug. 2024 - PRESENT

Notre Dame, IN

Graduate Research Assistant

Center for Language and Speech Processing, JHU

- Researched at Intelligence Amplification Lab, advised by Dr. Daniel Khashabi.
- Wrote research papers on topics of tool augmentation, free-text rationales evaluation, and advanced reasoning abilities of language models.

Apr. 2023 - Jun. 2024

Baltimore, MD

Co-founder

Artificial Intelligence Lab, WKU

- Co-founded WKU AI lab, advised by Dr. Gaurav Gupta.
- Conducted NLP research projects and taught basic NLP tutorials on attention, transformers, word embedding, parsing, etc.

Feb. 2022 - Jun. 2022

Wenzhou, China

Quantitative Consultant

Findability Science, Inc

- Built a deep factorization machine to estimate the click-through rate of users on advertisements.
- Formulated an unbiased statistical model to estimate the winning probability of bidding price for first-price auction. Created a reinforcement learning model to find the optimal bidding price.
- Researched in the domains of convex multistage problem, nonparametric optimization and Markov decision process, advised by Dr. Gaurav Gupta.

Sep. 2021 - Dec. 2021

Remote

Algorithm Developer Intern

NetEase, Inc

- Created a supervised behavior assessment model and a real-time unsupervised anomaly detection model to detect risky behaviors and users.
- Utilized Kubernetes and Flink to deploy the pipelines of real-time risky behavior detection models.

Jun. 2021 - Sep. 2021

Hangzhou, China

SKILLS AND COMPETENCIES

Programming: Python, MATLAB, R, SQL, SLURM, LaTeX, JAVA

Frameworks: PyTorch, TensorFlow, JAX, Huggingface, Transformers

Communication: Chinese (Native) and English (Proficient)

PUBLICATIONS

- **Yining Lu**, Noah Ziems, Hy Dang, Meng Jiang. *Optimizing Decomposition for Optimal Claim Verification*. Under Review. [paper](#)
- **Yining Lu**, Dixuan Wang, Tianjian Li, Dongwei Jiang, Daniel Khashabi. *Benchmarking Language Model Creativity: A Case Study on Code Generation*. Annual Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics (NAACL) 2025. [paper](#)
- Dongwei Jiang, Guoxuan Wang, **Yining Lu**, Andrew Wang, Jingyu Zhang, Chuyu Liu, Benjamin Van Durme, Daniel Khashabi. *RATIONALYST: Pre-training Process-Supervision for Improving Reasoning*. Under Review. [paper](#)
- Zhengping Jiang*, **Yining Lu***, Hanjie Chen, Daniel Khashabi, Benjamin Van Durme, Anqi Liu. *RORA: Robust Free-Text Rationale Evaluation*. Annual Meeting of the Association for Computational Linguistics (ACL) 2024. [paper](#)
- Xiao Ye*, Andrew Wang*, Jacob Choi, **Yining Lu**, Shreya Sharma, Lingfeng Shen, Vijay Murari Tiyyala, Nicholas Andrews, Daniel Khashabi. *ANALOBENCH: Benchmarking the Identification of Abstract and Long-context Analogies*. Conference on Empirical Methods in Natural Language Processing (EMNLP) 2024. [paper](#)
- **Yining Lu***, Haoping Yu*, Daniel Khashabi. *GEAR: Augmenting Language Models with Generalizable and Efficient Tool Resolution*. Conference of the European Chapter of the Association for Computational Linguistics (EACL) 2024. [paper](#)
- **Yining Lu**, Jingxi Qiu, Gaurav Gupta. *ProtSi: Prototypical Siamese Network with Data Augmentation for Few-Shot Subjective Answer Evaluation*. [paper](#)
- **Yining Lu***, Changjie Lu*, Naina Bandyopadhyay, Manoj Kumar, Gaurav Gupta. *Functional Optimization Reinforcement Learning for Real-Time Bidding*. Under Review. [paper](#)
- **Yining Lu**. *Exact Computation of Transfer Function for Discrete Dynamical System*. [manuscript](#)

SERVICE AND TEACHING WORK

Course Assistant: CS 601.471/671 NLP: Self-supervised Models, JHU - Spring 2024

Teaching Assistant: MATH 3291 Internship in the Mathematical Sciences, WKU - Summer 2023

Reviewer: BlackboxNLP Workshop 2024, EMNLP 2023, EMNLP 2022

HONORS AND AWARDS

Summa cum laude, Kean University	05/22
2021 Zhejiang Provincial Government Scholarship	11/21
2020 Zhejiang Provincial Government Scholarship	11/20
2020 - 2021 Academic Year Dean's Scholarship-Research and Innovation	12/21
2020 - 2021 Academic Year Dean's Scholarship	12/21
2019 - 2020 Academic Year Dean's Scholarship	11/20
2018 - 2019 Academic Year Dean's Scholarship	11/19

ACADEMIC COMPETITIONS

Mathematical Contest in Modeling

Led three-person team to **Finalist Prize**, Top 1% worldwide

02/21