

# Nan Zhang

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## EDUCATION

<b>Pennsylvania State University</b> , University Park, PA	08/2020-Present
<ul style="list-style-type: none"><li>Ph.D. in Informatics (<i>Co-supervised by Prasenjit Mitra and Rui Zhang</i>) GPA: 3.91/4.0</li><li><b>Research Interests:</b> Language Model Compression, Text Summarization, Clinical NLP, Machine Learning</li></ul>	
<b>Georgia Institute of Technology</b> , Atlanta, GA	08/2018-05/2020
<ul style="list-style-type: none"><li>M.S. in Computational Science and Engineering GPA: 3.69/4.0</li></ul>	
<b>Worcester Polytechnic Institute (WPI)</b> , Worcester, MA	08/2013-05/2017
<ul style="list-style-type: none"><li>BSc. in Computer Science &amp; Industrial Engineering (double major) GPA: 3.5/4.0 (Honors with Distinction)</li></ul>	

## PUBLICATION

\* denotes equal contribution

[8] Ryo Kamoi, Yusen Zhang, **Nan Zhang**, Jiawei Han, Rui Zhang. When Can LLMs Actually Correct Their Own Mistakes? A Critical Survey of Self-Correction of LLMs. Preprint.

[7] Ryo Kamoi, Sarkar Snigdha Sarathi Das, Renze Lou, Jihyun Janice Ahn, Yilun Zhao, Xiaoxin Lu, **Nan Zhang**, Yusen Zhang, Haoran Ranran Zhang, Sujeeth Reddy Vummanthala, Salika Dave, Shaobo Qin, Arman Cohan, Wenpeng Yin, Rui Zhang. Evaluating LLMs at Detecting Errors in LLM Responses. Preprint.

[6] **Nan Zhang**, Yanchi Liu, Xujiang Zhao, Wei Cheng, Runxue Bao, Rui Zhang, Prasenjit Mitra, Haifeng Chen. Pruning as a Domain-specific LLM Extractor. Findings of the Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL Findings), 2024.

[5] Yusen Zhang, **Nan Zhang**, Yixin Liu, Alexander Fabbri, Junru Liu, Ryo Kamoi, Xiaoxin Lu, Caiming Xiong, Jieyu Zhao, Dragomir Radev, Kathleen McKeown, Rui Zhang. Fair Abstractive Summarization of Diverse Perspectives. Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL), 2024.

[4] **Nan Zhang**\*, Connor Heaton\*, Sean Timothy Okonsky, Prasenjit Mitra, Hilal Ezgi Toraman. PEaCE: A Chemistry-Oriented Dataset for Optical Character Recognition on Scientific Documents. The 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING), 2024.

[3] Guangji Bai, Zheng Chai, Chen Ling, Shiyu Wang, Jiaying Lu, **Nan Zhang**, Tingwei Shi, Ziyang Yu, Mengdan Zhu, Yifei Zhang, Carl Yang, Yue Cheng, Liang Zhao. Beyond Efficiency: A Systematic Survey of Resource-Efficient Large Language Models. Preprint.

[2] **Nan Zhang**, Yusen Zhang, Wu Guo, Prasenjit Mitra, Rui Zhang. FaMeSumm: Investigating and Improving Faithfulness of Medical Summarization. Conference on Empirical Methods in Natural Language Processing (EMNLP), 2023.

[1] **Nan Zhang**, Shomir Wilson, Prasenjit Mitra. STAPI: An Automatic Scraper for Extracting Iterative Title-Text Structure from Web Documents. Language Resources and Evaluation Conference (LREC), 2022.

## PROFESSIONAL EXPERIENCE

<b>Research Intern</b> , Salesforce AI Research, Palo Alto, CA	06/2024-Present
<i>Supervised by: Alex Fabbri, Gabriel Bernadett-Shapiro, Chien-Sheng (Jason) Wu</i>	

**Research Intern**, NEC Labs America, Princeton, NJ

05/2023-08/2023

*Supervised by: Yanchi Liu*

- Compressed Large Language Models (LLMs) for efficient deployment in the enterprise environment
- Work has been accepted to Findings of NAACL 2024: “Pruning as a Domain-specific LLM Extractor”

**Student Intern**, BNP Paribas, New York, NY

10/2016-12/2016

- Devised the front-end via AngularJS and constructed the SQL database in Microsoft SQL Server

**Software Development Intern**, Fidelity Investments, Smithfield, RI

05/2016-08/2016

- Used Spring Framework to redesign a web application and created JUnit Test Cases for its Java utility classes

## Media Mentions

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- Aqsa Younas Rana. “Revolutionizing Medical Summaries: How Penn State’s New AI Framework Promises Accuracy and Reliability” (**BNN, Feb. 22, 2024**)
- Mary Fetzner. “Improving efficiency, reliability of AI medical summarization tools” (**Penn State News, Feb. 21, 2024**)

## TALKS AND PRESENTATIONS

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- “Medical Summarization on Factuality and Readability with Large Language Models”. Poster, The 10th Mid-Atlantic Student Colloquium on Speech, Language and Learning (MASC-SLL 2023). April 22, 2023
- “Transformer-based Optical Character Recognition Model for Chemistry Scholarly Papers”. Poster, Penn State University ICDS Fall 2022 Symposium. October 12, 2022.

## SERVICES

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- Program Committee of SUKI (Structured and Unstructured Knowledge Integration) @ NAACL 2022
- Reviewer, ACL Rolling Review Dec. 2022
- Reviewer, EMNLP 2023
- Review Committee of CoNLL 2023 and 2024
- Reviewer, AI4Research Workshop @ IJCAI 2024
- Reviewer, NeurIPS 2024