

# LU GUO

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## EDUCATION

<b>Syracuse University</b> , School of Information Studies, Syracuse, NY	05/2024
<b>M.S. in Applied Data Science</b> (GPA: <b>4.0</b> , received over \$60,000 in scholarships)	
<i>Relevant Coursework:</i> Machine Learning, Text Mining, Natural Language Processing, Database, Data Visualization	
<b>Sichuan University</b> , School of Public Administration, Chengdu, China	06/2020
<b>M.S. in Information Science</b> (GPA: 3.8, <b>top 1</b> )	
<i>Relevant Coursework:</i> Information Retrieval, Information Management, Data Structures	
<b>Sichuan University</b> , School of Public Administration, Chengdu, China	06/2017
<b>B.S. in Information Management and Information Systems</b> (GPA: 3.5, top 10%)	

## WORK EXPERIENCE

<b>Research Assistant</b> , @LANTIS Lab, Syracuse University, Syracuse, NY	08/2022 – Present
<ul style="list-style-type: none"><li>Collaborating with four lab members to systematically <b>collect and clean data</b> from multiple platforms, including government websites, PubMed database, Reddit, Twitter, and more</li><li>Writing <b>Python</b> code to leverage <b>machine learning</b> and <b>deep learning</b> algorithms and <b>Large Language Models (LLMs)</b> to analyze data to help understand how governments communicate COVID-19 healthcare information</li></ul>	
<b>Senior Software Quality Assurance Engineer</b> , Alibaba affiliate Ant Group, Chengdu, China	01/2022 – 08/2022
<ul style="list-style-type: none"><li>Established robust quality standards for Alipay server releases, ensuring heightened system reliability</li><li>Conducted daily <b>SQL</b> analysis and created <b>BI dashboards</b> to efficiently identify user behavioral data issues</li><li>Implemented an authorization system upgrade, involving a <b>database</b> upgrade of over 10 million rows of user data</li></ul>	
<b>Software Quality Assurance Engineer</b> , ByteDance Ltd., Beijing, China	06/2020 – 12/2021
<ul style="list-style-type: none"><li>Initiated and successfully led three automated testing projects, writing over 100,000 lines of Python code, and generating over \$120,000 in revenue</li><li>Created <b>BI dashboards</b> and visualized user behavior data from <b>A/B testing</b> on TikTok to maximize ad performance, resulting in a 30% increase in advertisement revenue and getting promoted within a year</li><li><b>Managed a team</b> of 16 outsourced people to test TikTok and Douyin applications. Assigned unit and integration test tasks, checked progress, solved problems, and evaluated performance</li></ul>	
<b>Software Quality Assurance Intern</b> , TikTok's parent company ByteDance Ltd., Beijing, China	05/2020 – 06/2020
<ul style="list-style-type: none"><li>Wrote <b>Python</b> code to build an automated test system for the TikTok application</li><li>Developed automated test results follow-up processes, wrote technical documents, and shared them with colleagues</li></ul>	

## PROJECTS

<b>Analytics of COVID-19 Self-Care Guidance on Government Websites</b> ( <a href="#">GitHub Link</a> )	12/2022 – 08/2023
<ul style="list-style-type: none"><li>Developed a systematic procedure to collect COVID-19 self-care guidance data from government websites</li><li>Designed an annotation schema based on self-care theories and manually annotate the collected data</li><li>Conducted data analysis and generated critical insights using <b>machine learning</b> models and <b>advanced Excel</b></li></ul>	
<b>Classification of Causal Claims in Research Papers and News</b> ( <a href="#">GitHub Link</a> )	03/2023 – 07/2023
<ul style="list-style-type: none"><li>Developed <b>Python</b> code to harness the power of <b>BERT</b> and state-of-the-art <b>Large Language Models (LLMs)</b> to classify causal claims extracted from research papers and news articles</li><li>Implemented prompt engineering strategies to optimize model performance on the classification task</li><li>Deployed the most effective prompt-engineered models to classify the entire dataset</li></ul>	

## TECHNICAL SKILLS | PUBLICATION

**Research Paper:** Kim, Y., Guo, L., Yu, B., & Li, Y. (2023). Can ChatGPT Understand Causal Language in Science Claims? (Top-tier NLP conference: ACL. [Paper Link](#))

**Programming:** Python (TensorFlow, Keras, pandas, NumPy, scikit-learn), R, SQL, Spark, Git, HTML, XML, Linux

**Data Analysis:** Machine Learning (regression, decision trees, random forests, k-means clustering, and Transformer), Deep Learning, Natural Language Processing, Data Visualization

**Tools:** Power BI, Tableau, Google Analytics, Salesforce, Excel, Word, PowerPoint, Access, Illustrator, Visio, AWS, JIRA, Azure, Docker