

# CHISHU YIN

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Syracuse, NY - 13206, US

## EDUCATION

- **Syracuse University** Aug 2019 - May 2026  
*Ph.D in Mathematics (Emphasis in Statistics) | GPA: 3.97/4.00* Syracuse, US
  - Research: Statistical methodologies for Phase II clinical trials with multiple endpoints.
  - Relevant Courses: Nonparametric Statistics, Statistical Machine Learning, Multivariate Analysis, Ranking and Selection.
- **Syracuse University** Aug 2017 - May 2019  
*Master of Science in Applied Statistics | GPA: 3.97/4.00* Syracuse, US
- **Renmin University of China** Sep 2013 - May 2017  
*Bachelor of Science in Mathematics and Computer Science* Beijing, China

## WORKING EXPERIENCE

- **Handshake – MOVE Fellowship** [🌐] May 2025 – Aug 2025  
*Math Fellow* Remote
  - Developed domain-specific prompts for large language models (LLMs) to support education and math-related tasks.
  - Evaluated and revised model outputs based on research quality metrics; contributed asynchronously to remote NLP workflow.
  - Supervised by Dr. Magdalena Gross; paid via milestone-based stipend ( \$90/hr).
- **Upstate Medical University Hospital** [🌐] Sep 2023 - Apr 2024  
*Research Assistant* Syracuse, US
  - Cleaned and preprocessed medical records of 800+ patients, each containing dozens of quantitative and categorical variables, ensuring data integrity and consistency for statistical analysis.
  - Conducted multivariate statistical analysis using generalized linear models (GLMs), chi-square tests, and multivariate analysis of variance (MANOVA); identified a statistically significant increase in the risk of preterm birth in areas with high frequency of gunshots.
  - Co-authored manuscript under review in American Journal of Epidemiology.
- **China Telecom** [🌐] Sep 2016 - Mar 2017  
*Cloud Computing and Big Data Intern* Beijing, China
  - Optimized URL classification accuracy by 15% via Python-based ML models (Random Forest, SVM).

## SELECTED PROJECTS

- **GPT2-Chinese Novel Generator (LoRA Fine-Tuned)** [🌐] Feb 2025 – May 2025  
*Personal Project* Remote
  - Fine-tuned a Chinese GPT2 model using a custom martial-arts fiction dataset and LoRA (Low-Rank Adaptation).
  - Built a text generation pipeline with Hugging Face Transformers and PEFT, supporting stylistic sampling via top-p and temperature.
  - Designed the model to emulate the narrative style of Jin Yong novels; supports inference from prompt.

## RESEARCH INTERESTS AND EXPERTISE

- Ranking and Selection, Experimental Design, Multivariate Analysis

## CONFERENCES AND PUBLICATIONS

C=CONFERENCE TALK, J=JOURNAL, S=IN SUBMISSION

- [C.1] **Chishu Yin**, Pinyuen Chen, et al. (2022). [Two-Stage Design for Selecting Among Treatments with Two-Dependent Binary Endpoints](#). In *Joint Statistical Meeting (JSM) 2022* (Oral Presentation)
- [C.2] **Chishu Yin**, Pinyuen Chen, et al. (2021). Curtailed two-stage design for comparing an experimental treatment to a control treatment with two dependent binary endpoints. In *Joint Statistical Meeting (JSM) 2021* (Poster Presentation)
- [S.1] **Chishu Yin**, Elena M. Buzaianu, Pinyuen Chen and Lifang Hsu, et al. (2025). A Design for Selecting Among k Treatments with Two Binary Endpoints in Comparison to a Control Treatment. Manuscript submitted for publication in *Sankhya B*.
- [S.2] **Chishu Yin**, Elena M. Buzaianu, Pinyuen Chen and Lifang Hsu, et al. (2025). Subset Selection with Curtailment among Treatments with Two Binary Endpoints in Comparison with a Control. Invited to for submission by the journal *Mathematics*.
- [S.3] James B. W., Fisher R., **Yin C.**, Kmush B. L., Silverman R., Mastrogiannis D., et al. (2024). The Association Between Neighborhood Gunshot Frequency and the Development of Preterm Birth.. Manuscript submitted for publication.

## SKILLS

- **Programming Languages:** Python,R, SAS

## AWARDS AND GRANTS

- |   |                 |
|---|-----------------|
| • <b>Summer Research Fellowship for outstanding academic achievement in mathematics</b><br><i>Syracuse University</i> | <i>May 2023</i> |
| • <b>JSM 2022 Travel Grant</b><br><i>Syracuse University</i>  | <i>Aug 2022</i> |
| • <b>JSM 2021 Travel Grant</b><br><i>Syracuse University</i>  | <i>Aug 2021</i> |
| • <b>PHI BETA DELTA, honor for outstanding international scholars</b><br><i>Syracuse University</i>                   | <i>May 2019</i> |

## COURSE INSTRUCTOR EXPERIENCE

- |   |                                    |
|---|------------------------------------|
| • <b>MAT 221 Elem.Probability and Stats I</b><br><i>Syracuse University</i>   | <i>Summer 2024 and Summer 2025</i> |
| • <b>MAT 222 Elem.Probability and Stats II</b><br><i>Syracuse University</i>  | <i>Fall 2022 and Spring 2023</i>   |
| • <b>MAT 121 Prob. and Stats for Lib.Arts I</b><br><i>Syracuse University</i> | <i>Summer 2021 and Summer 2022</i> |