

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*. [Preprints, 2025](#).
- [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

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

COURSE INSTRUCTOR EXPERIENCE

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