

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

- **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).

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:** R, SAS, Python

AWARDS AND GRANTS

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

COURSE INSTRUCTOR EXPERIENCE

- **MAT 221 Elem.Probability and Stats I** *Summer 2024*
Syracuse University
- **MAT 222 Elem.Probability and Stats II** *Fall 2022 and Spring 2023*
Syracuse University
- **MAT 121 Prob. and Stats for Lib.Arts I** *Summer 2021 and Summer 2022*
Syracuse University