

IRIS (SHENGQI) ZHONG

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Education

Stanford University

MS, Education Data Science (GPA: 4.0)

Stanford, CA

06/2023

Courses: Experiment Methodology, Causal Inference, Test Theory, Social Network Analysis, Multilevel Modeling, Database Management, Survey Design, Learning Sciences, Probabilities

Smith College

BA, Highest Honors in Psychology & BA, Quantitative Economics (GPA: 3.99)

Northampton, MA

05/2021

Courses: Research Methods, Regression, Bayesian Analysis, Dyadic Modeling, Developmental Psychology, Econometrics

Award: Sidney S. Cohen Prize in Economics

Work Experience

Education Analytics | Research Analyst II

Madison, WI, 07/2023 – Present

- Work as a lead analyst to implement growth models in R and SQL, manage quality control, develop technical documentation, and serve as the primary technical liaison for school districts
- Lead analytical efforts for an IES grant, utilizing R and SQL to process social-emotional learning survey data; conduct psychometric analyses, author open-source technical reports, and contribute to project management operations

OpenStax, Rice University | Research Intern, Data Consultant

Remote, 08/2022 – 08/2024

- Created Docker-R scripts with the developers, to allow external researchers to run analyses on student data securely
- Wrote R scripts to automate Qualtrics survey data exploration process, including data querying, cleaning, and analyses such as clustering, reliability, correlation, regression, t-test, and classification accuracies
- Conducted data analyses for AB testing to explore textbook features that facilitate student learning

McGraw Hill Education | Data Science Research Intern

Remote, 06/2022 – 06/2023

- Used SQL and R to query and conduct exploratory analyses of assessments from an online learning product, created documentation, presented results to company stakeholders, and identified key features to include in the modeling work
- Fit psychometric models in R and Databricks to calibrate parameter statistics

Smith College | Research Assistant

Northampton, MA, 01/2019 – 05/2021

- Evaluated Romani child language assessment with Rasch analysis in R and Winsteps, and made test performance improvement suggestions with differential item functioning analysis
- Developed a database with FileMaker for behavioral assessment of Mandarin-speaking 0-to-36-months-old infants in China, which was piloted in a kindergarten

Publications

Kyuchukov, H., de Villiers, J., Zhu, Y., & **Zhong, I.** (2024). Assessing the acquisition of Romani in Roma children. *Language Acquisition*, 1-36. *Won Best Paper Contributing to Linguistic Diversity

Bainbridge, K., Walkington, C. A., Ibrahim, A., **Zhong, I.**, Mallick, D. B., Washington, J., & Baraniuk, R. G. (2023). A Case Study using Large Language Models to Generate Metadata for Math Questions. In *LLM@ AIED* (pp. 34-42).

Li D., **Zhong S.**, Schuler K. (2023). Adapting Infant Looking Time Paradigms for the Web. Proceedings of the 47th annual Boston University Conference on Language Development, ed. Paris Gappmayer and Jackson Kellogg, 499-504. Somerville, MA: Cascadilla Press.

Skills

Technology: R, Python, SQL, SPSS, Stata, Git, Qualtrics, Big Query, Tableau, Databricks, Winsteps, FileMaker, Figma, Canva

Research and Data Science: Experiment Design, Survey Design, Data Collection, Data Cleaning and Wrangling, Data Visualization, Academic Research Writing