Zhaowen Guo

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PROFESSIONAL EXPERIENCE

Better Government Lab, Georgetown University — Remote
Postdoctoral Researcher — Aug 2024 - present

- Conducted impact evaluations with civic tech companies and state governments using field experiments, A/B testing, and quasi-experimental designs to assess digital interventions aimed at reducing administrative burdens for benefit navigators.
- Developed an interactive dashboard, SNAP QC Error Viewer, to visualize administrative errors in SNAP applications, enhancing the development of an AI chatbot for caseworker assistance.

Centre for the Governance of AI — Remote
Data Scientist Contractor — Jan 2024 - Aug 2024

- Developed R scripts to streamline the data visualization process and preliminary analysis of survey data to improve research workflow efficiency.
- Conducted forecasting analysis through median aggregation techniques to provide analytical insights for a research report on cross-country public opinion about the usage and knowledge of AI.

Hans Rosling Center for Population Health — Seattle, WA
Data Scientist Intern — Jun 2023 - Aug 2023

- Collaborated with statistical demographers and epidemiologists to develop metrics analyzing internal migration within King County using the Data Axle consumer database, yielding insights into the spatial and temporal dynamics of migration.
- Created and presented static and interactive visualizations using R and RShiny to depict housing supply trends and migration patterns, while enhancing the user experience and functionality of the existing interactive dashboard, Exploring King County.

eScience Institute — Seattle, WA
Data Scientist Intern — Jun 2022 - Aug 2022

- Developed and deployed an algorithm utilizing tidyverse in R and PostgreSQL to predict household groupings within a dataset of 10 million longitudinal administrative records in Washington State, achieving a 9% reduction in error rate (GitHub).
- Collaborated with DSHS government officials, community leaders, and research scientists to create metrics for evaluating household poverty.

Center for Social Science Computation and Research — Seattle, WA
Statistical Consultant — Sep 2021 - Aug 2024

- Designed and led a quarter-long workshop series on data visualization, data wrangling, and introductory statistics using R and Python, equipping participants with applied data science skills.
- Delivered 80 hours per month of data and research consulting services, supporting social science faculty and students by resolving coding issues, streamlining data workflows, and enhancing research design strategies.

EDUCATION

University of Washington — Seattle, WA
Ph.D. in Political Science, Minor in Data Science — Aug 2024

- Psychometrics & Applied Analytics (PAA) Graduate Certificate
- Summer Institute in Computational Social Science (SICSS) Certificate

SKILLS

Coding: Experienced in R, Python, SQL, Qualtrics, Git/GitHub, LaTeX
Data science: survey methods (power analysis, survey weighting, item response theory, structural equation modeling, simulation analysis), causal inference (experimental methods, difference-in-difference design), machine learning (scikit-learn, BERT embeddings), data wrangling (tidyverse, pandas), data visualization (ggplot2, R Shiny), statistical modeling (generalized linear models, hierarchical models, multivariate analysis)