

Xilin Chen

DATA SCIENTIST

Ann Arbor, MI

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Summary

- Senior Statistician at the University of Michigan
- Completed over 50 projects and delivered hundreds of analytical reports
- Experienced in healthcare big data and research management (Medicare, EMR, etc)
- Skilled programmer in building reproducible code, mainly R and Python
- Proficient in working with complex data structure and using statistical models to solve real-world problems
- Project examples at my website: <https://xilinchennetlify.app/project/>

Experience

Statistician Senior

UNIVERSITY OF MICHIGAN

Ann, Arbor, MI

July 2018 - Present

- Completed over 40 projects and coauthored over 10 peer-reviewed publications
- Delivered hundreds of reproducible analytical reports to communicate with stakeholders with various background
- Mentored several research fellows and junior analysts in statistical methods, programming and project management
- Collaborated closely with more than 5 large external institutions on research design and statistical analysis
- Managed and analyzed large data including Medicare (e.g., datasets consisting of millions of observations);
- Authored and maintained R packages for data processing and data analysis
- Wrote reproducible code for data processing, linkage, statistical analysis, reports, visualization and Shiny apps
- Collaborated with a diverse team using Agile practices

Biostatistician

UNIVERSITY OF PITTSBURGH

Pittsburgh, PA

Jan 2017 - July 2018

- Served as a statistical consultant for the Pittsburgh Surgical Outcomes Research Center
- Completed 10 to 20 plus ad-hoc projects and coauthored in 8 peer-reviewed publications
- Assisted in manuscript writing and grand proposal preparation
- Helped residents and primary investigators in study design, data management and analysis
- Utilized GIS to spatially integrate databases, including geocoding, map demonstration and spatial analysis

Research Analyst

UNIVERSITY OF PITTSBURGH

Pittsburgh, PA

May 2016 - Jan 2017

- Conducted data collection, evaluation, and reporting for substance abuse projects in the Program Evaluation and Research Unit
- Designed and distributed evaluation survey, proficient with survey software (Quadratics)
- Systematized project findings and recommendations for feasible quality improvement movements

Skills

Programming	R (eg. ggplot, sparklyr, lme4, mgcv, targets, brms), Python, Shiny, SAS, Stata, SQL, Git, Unit Testing
Analytical skills	Bayesian methods, mixed models, psychometrics, propensity score, matching, missing data, data linkage, generalized additive model
Database	Medicare, Electronic Medical Record, Clinical Research Data

Education

Master of Public Health

UNIVERSITY OF PITTSBURGH

Pittsburgh, PA

Major: Environmental and Occupational Health

Bachelor of Science

SICHUAN AGRICULTURAL UNIVERSITY

Sichuan, China

Major: Food Science and Engineering