

# 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

Ann, Arbor, MI

UNIVERSITY OF MICHIGAN

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 more than 5 research fellows and 1 junior analyst 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

Pittsburgh, PA

UNIVERSITY OF PITTSBURGH

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

Pittsburgh, PA

UNIVERSITY OF PITTSBURGH

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

Pittsburgh, PA

UNIVERSITY OF PITTSBURGH

Major: Environmental and Occupational Health

### Bachelor of Science

Sichuan, China

SICHUAN AGRICULTURAL UNIVERSITY

Major: Food Science and Engineering