

# Xilin Chen

DATA SCIENTIST

Ann Arbor, MI

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## Summary

- Senior Statistician at the University of Michigan, Department of Surgery
- Over 6 years of experience and delivered over 50 projects
- Experienced in healthcare research and big data (Medicare, EMR, etc)
- Skilled programmer in building reproducible code, workflow, R package and dashboard
- Proficient in working with complex data structure and using statistical models to solve real-world problems
- My work example at my portfolio website: xxxxxx

## Experience

### University of Michigan

STATISTICIAN SENIOR

Ann, Arbor, MI

August 1, 2020 - Present

STATISTICIAN INTERMEDIATE

July 23, 2018 - July 31, 2020

- Completed **over 40 projects** and coauthored **over 10 peer-reviewed publications**
- 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
- Created **hundreds of reproducible analytical reports** to communicate with stakeholders with various background
- Managed and analyzed **large data** including Medicare (e.g., datasets consisting of millions of observations);
- Authored and maintained **R packages** for Medicare data processing and analysis
- Wrote reproducible code for **data processing, linkage, statistical analysis, 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 Pittsburgh Surgical Outcomes Research Center in Department of Surgery
- 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 multiple substance abuse projects
- Designed and distributed evaluation survey, proficient with survey software (Quadratics)
- Systematized project findings and recommendations for feasible quality improvement movements

## 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

## 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