

Xilin Chen

DATA SCIENTIST

Ann Arbor, MI

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Summary

- Manager of Data Analytics 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

Manager of Data Analytics

UNIVERSITY OF MICHIGAN

Ann Arbor, MI

Aug 2022 - Present

- **Lead and manage** data analytics team at the Obstetrics Initiative

Statistician Senior

UNIVERSITY OF MICHIGAN

Ann, Arbor, MI

July 2018 - Aug 2022

- **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**

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

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

Skills

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