

Xilin Chen

DATA ANALYST

Ann Arbor, MI

☎ (610) 462-3868 | ✉ xilin.chen24@gmail.com | 🏠 xilinchennetlify.com | 🌐 xilinchennetlify.com | 📧 xilinchennetlify.com | 📧 xilinchennetlify.com

Summary

Current Big Data Analyst at the University of Michigan, Department of Surgery. Enjoy working with complex data and using statistical models to solve real-world problems. Interested in finding solutions for challenging tasks, learning new technologies and tools to achieve better results and improve team efficiency

Experience

Big Data Analyst

Ann, Arbor, MI

UNIVERSITY OF MICHIGAN

July 2018 - present

- Managed and analyzed multiple large data sets (e.g., datasets consisting of millions of datapoints) and created visualizations)
- Used big data tools like Spark to achieve data processing efficiency
- Wrote reproducible code in R for data processing, data linkage, and statistical analysis
- Created diagrams, standardized analytical documentations and charts to communicate with stakeholders with limited background
- Collaborated with a diverse team using research Sprint/Agile/Scrum

Biostatistician

Pittsburgh, PA

UNIVERSITY OF PITTSBURGH

Jan 2017 - July 2018

- Served as a statistical consultant and analyst for Pittsburgh Surgical Outcomes Research Center in Department of Surgery
- 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 in School of Pharmacy
- 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

Aug 2014 - April 2016

Major: Environmental and Occupational Health

Bachelor of Science

Sichuan, China

SICHUAN AGRICULTURAL UNIVERSITY

Aug 2010 - April 2014

Major: Food Science and Engineering

Skills

Programming

R (eg. ggplot, sparklyr, lme4, mgcv), Stata, SAS, Git (eg. GitHub), Shiny

Analytical skills

mixed model, generalizability theory, GEE, propensity score matching, missing data manipulation, data linkage, generalized additive model

Database

Electronic Medical Record, Claim data, clinical research data

Publication

Abbott, K. L., **Chen, X.**, Clark, M., Zaidi, N. L. B., Swanson, D. B., George, B. C. (2019). Number of Operative Performance Ratings Needed to Reliably Assess the Difficulty of Surgical Procedures. *Journal of surgical education*, 76(6), e189-e192.

Chen, X., Guyette, F. X., Peitzman, A. B., Billiar, T. R., Sperry, J. L., Brown, J. B. (2019). Identifying patients with time-sensitive injuries: Association of mortality with increasing prehospital time. *Journal of trauma and acute care surgery*, 86(6), 1015-1022.

Myers, S. P., Brown, J. B., Leeper, C. M., Kutcher, M. E., **Chen, X.**, Wade, C. E., ... Neal, M. D. (2019). Early versus late venous thromboembolism: A secondary analysis of data from the PROPPR trial. *Surgery*.

Chen, X., Gestring, M. L., Rosengart, M. R., Billiar, T. R., Peitzman, A. B., Sperry, J. L., and Brown, J. B. (2018). Speed is not everything: Identifying patients who may benefit from helicopter transport despite faster ground transport. *Journal of trauma and acute care surgery*, 84(4), 549-557.

Chen, X., Gestring, M.L., Rosengart, M.R., Peitzman, A.B., Billiar, T.R., Sperry, J.L. and Brown, J.B., 2018. Logistics of air medical transport: When and where does helicopter transport reduce prehospital time for trauma?. *Journal of Trauma and Acute Care Surgery*, 85(1), pp.174-181.

van der Windt, D.J., Bou-Samra, P., Dadashzadeh, E.R., **Chen, X.**, Varley, P.R. and Tsung, A., 2018. Preoperative risk analysis index for frailty predicts short-term outcomes after hepatopancreatobiliary surgery. *HPB*, 20(12), pp.1181-1188.