

Kaelen L. Medeiros

(517) 648-9025

kaelenmedeiros@gmail.com

Education

Louisiana State University Health Sciences Center

Master of Science in Biostatistics

August 2014 – May 2016

Advisor: Dr. Qingzhao Yu

Thesis title: General multiple mediation analysis to examine ethnic differences in anxiety and depression in cancer survivors using the MY-Health survey

Eastern Michigan University

Post Baccalaureate education in Math & Biology

September 2012 – June 2014

University of Michigan

Bachelor of Arts in Screen Arts and Cultures & Women's Studies

September 2007 – December 2011

Experience

HERE Technologies

Data Scientist

May 2017 – present

- Hired in as the first Data Scientist on an internal data quality team.

American College of Surgeons

Statistician

June 2016 – May 2017

- Conducted risk-adjusted hierarchical modeling with coded hospital data to carry out surgical program risk assessment for MBSAQIP (bariatric surgery) and TransQIP (transplant surgery) data.
- Cleaned datasets for public release for research, including removal of all protected health information, logic checks, and flagging errors.
- Advised on best practices for statistical design and analysis of studies, including an integral role in the launch of a nationwide Enhanced Recovery in Bariatric Surgery project, with expertise on survey design, survey scoring, and data collection methods.
- Consulted on UX design of front-end data collection tools.

Louisiana Tumor Registry

Biostatistician & Researcher

January 2015 – May 2016

- Designed and conducted statistical analyses and data modeling efforts for research projects focusing on cancer diagnosis and treatment trends using National Cancer Database (NCDB) data from the American College of Surgeons (ACS), focused on breast, pancreatic, and colorectal cancers (presently, with more projects to come).
- Responsible for extensive research and rewrites of the cancer Facts & Figures program booklets in order for distribution for a more general audience, running cancer statistics as necessary in SEERStat with Survival, Epidemiology and End Results (SEER) data.

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- Published 2 papers using univariate and multivariable survival analysis methods plus exploratory data analysis methods.

National Network of Public Health Institutes (NNPHI)

Data Abstractor

May 2015 - August 2015

- Worked on a team with 4 other contracted abstractors, program manager, and director of research to abstract data, including pre-screen questions, study design, participant characteristics, study quality, and outcome information for a worksite physical activity intervention study for a CDC contract.
- Abstracted 52 articles, included with the team's 200+ articles abstracted by the conclusion of the project.
- Conducted quality control on abstractions based on notes from both program manager and CDC team.

Louisiana Cancer Prevention and Control Programs (LCP)

Social Media Analytics Assistant

September 2014 – August 2015

- Collected and analyzed social media reach data and adjusted public health marketing strategies accordingly.
- Assisted in creation of content for social media sites (Twitter, Facebook, Instagram) for LCP and SurviveDat.
- Scheduled outreach events and updated calendars and websites to reflect any changes.

Publications and Manuscripts

Chu, Q.D., Zhou, M., Medeiros, K.L., Wu, X.C., Peddi, P. "Positive Surgical margins Contribute to the Survival Paradox between Patients with Stage IIB/C (T4N0) and Stage IIIA (T1-2N1, T1N2a) Colon Cancer." *Surgery*, Vol. 160, Issue 5, pg. 1333- 1343. January 2016.

Chu, Q.D., Zhou, M., Medeiros, K.L., Peddi, P., Kavanaugh, M., Wu, X.C. "Poor survival in stage IIB/C (T4N0) compared to stage IIIA (T1-2 N1, T1N2a) colon cancer persists even after adjusting for adequate lymph nodes retrieved and receipt of adjuvant chemotherapy." *BMC Cancer*, 16:460. January 2016.

Skills

- Extensive experience in SAS programming environment including proficiency with SAS macros.
- Extensive experience in R including data management, use of packages to analyze data.
- Proficient in SQL for use of retrieving data from relational databases.
- Mid-level Python as it applies to statistical analysis.
- Proficient in LaTeX programming environment for document and presentation creation.