

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

June 2017 – present

- Main data scientist representative of the Quality Testing and Statistics team, serving as a liaison and internal consultant for other teams in the company, advising on their planned machine learning models and creation of training data for those models.
- Responsible for synthesis of large datasets requiring many joins, extensive cleaning of messy data collected in the field, drafting production-level prediction models, and creation of quality scores.
- Writes spec for data synthesis and reports on analyses, with goal of educating non-data science audience in the company on how to interpret and use results of quality tests.

MedStar Health Institutes for Innovation

Remote R Big Data Developer

April 2017 – present

- Responsible for building and debugging data analysis pipelines and instantiating as APIs, testing with PostMan, and adding on as needed as other use cases become apparent.
- Create research paper templates which allow for testing of large amounts of EMR data to address medical questions brought in by researchers.
- Consults on deep learning projects and data pipelines for other MedStar projects as needed.

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 removing all protected health information, checking logic, and flagging errors.

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- 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.
- 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., Peddi, P., **Medeiros, K.L.**, Zibari, G.B., Shokouh-Amiri, H., Wu, X.C, "Influence of Facility Type on Survival Outcomes after Pancreatectomy for Pancreatic Adenocarcinoma" *Journal of Hepato-Pancreato-Biliary Association*, Volume 18, Supplement 1, pp. e81-e82. April 2017.

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.

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Skills

- 4 years' experience in SAS programming environment, including IML and proficiency with SAS macros.
- 3 years' experience in R, including data management, use of packages to analyze data, and creation of automatic data analysis APIs.
- 2 years' experience in SQL for use of retrieving data from relational databases including Google Big Query and SEER*Stat.
- 1 year experience in Python for use of writing basic web apps and for most data analysis purposes.
- Proficient in LaTeX programming environment for document and presentation creation.
- Fully functional in all Microsoft Office suite programs.