Jacob Clark

DATA WRANGLER/VISUALIZER

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EDUCATION

MASTER OF PUBLIC HEALTH BIOSTATISTICS
The University of Iowa
2015-2017

BA BUSINESS ADMINISTRATION
Dordt University, Iowa
2008 – 2011

SKILLS

- Cleaning & formatting wide varieties of data
- Transforming complex info into graphical stories
- Excellent verbal & written capabilities
- Finding analytical & graphical solutions to fit needs of people from diverse range of fields
- Highly self-motivated learner & problem-solver

TOOLS

Proficient: R, SAS

Experienced: SQL, Shiny, HTML, CSS, D3, Git, MS Office

WORK EXPERIENCE

BIOSTATISTICIAN II
The University of Iowa, Center for Public Health Statistics | 2015 – Present
Oversee, program, and maintain data pipelines and custom reporting jobs based on client requests. Supervise and train graduate student workers. Projects include:

Campus Surveys
- Collaborate with diverse team to design and produce hundreds of actionable reports with professional grade visualizations for various campus entities. Lead the development of a parameterized pipeline that enables nearly on-demand report generation.
- Utilize R/Rmarkdown and parallel computing to develop and maintain automated piping from cleaning to report generation and create custom reports.

CDC and State Grant Programs
- Maintain large health records data consisting of medical questionnaires, labs, and patient history for cancer-screening programs. Generate reports and files both on a regular schedule and as needed by CDC and Iowa state health agencies.
- Manipulate complex relational databases using SSMS (SQL) and SAS to create analysis data sets for patient cohort health evaluation and program efficiency.
- Rewrote previous (manual) systems to create new pipelines, incorporating better validations and faster processing.

Iowa Health Fact Book
- Coordinate with IT, web developers, health officials, and students to pull data from a spectrum of sources for yearly updates.
- Completely rehauled legacy coding from SAS to R to move health resource from book to online format, producing helpful tabulation and more insightful and interactive graphics within dashboards.

Cancer Mapping
- Co-led creation of interactive choropleth maps of Iowa cancer rates using D3.js for the Iowa Cancer Registry.
- Currently work with team of statisticians to incorporate novel modeling techniques into maps. Presented preliminary visuals at 2022 Information Technologies in Cancer Research conference.

Awards
- Recently bestowed the prestigious Exceptional Performance Award for excellent and integral efforts in advancing Center projects.
- Twice a SPOT award recipient for exceptional collaboration and responsiveness to requests on short notice.

ADJUNCT PROFESSOR
Dordt University | Sioux Center, Iowa | 2019 – 2020
- Created and taught a course on data management, visualization, and communication using R/RMarkdown.
- Co-taught undergraduate classes on intro statistics and modeling.