

Corey Brennan

COMPUTER SCIENCE · STATISTICAL ANALYSIS

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Education

Oregon State University

B.S. IN COMPUTER SCIENCE

Corvallis, OR

Feb 2019 - May 2022

Columbia University

M.P.H. IN EPIDEMIOLOGY & APPLIED BIOSTATISTICS

New York, NY

Sep 2016 - May 2018

University of North Carolina

B.S. IN PSYCHOLOGY; B.A. IN PEACE, WAR, AND DEFENSE

Chapel Hill, NC

Aug 2010 - Sep 2014

Work Experience

NewYork-Presbyterian Hospital

ANALYST, TRANSPLANT QUALITY AND COMPLIANCE

New York, NY

Jul 2018 - Present

- Analyze and assess patient medical records using R statistical programming to ensure optimal and consistent operation of transplant program.
- Employ R programming and modeling to create meaningful dashboards and visualizations to assist pre- and post- transplant coordinators.
- Mine and abstract requested variables and data sets from patient EMR and other database systems, including a relational database containing data for over 1 million transplants.
- Perform statistical analyses to determine outcomes for donor/recipient characteristics and transplant patient pharmaceutical regimens.
- Clean and structure medical record data to be effectively analyzed, and generate reports from available data.
- Conduct analyses for and assist in writing manuscripts and abstracts for submission to academic journals and conferences.
- Prepare and assist with the transition to the Epic EMR system as an Epic Super User.

Columbia University Medical Center

TRANSPLANT OUTCOMES RESEARCH ASSISTANT

New York, NY

May 2017 - Jun 2018

- Completed analyses for 3 published manuscripts and 3 poster abstracts.
- Utilized predictive modeling, survival analysis, and statistical tests in SAS to investigate kidney transplant patient outcomes.
- Conducted data mining and abstraction from electronic medical records (EMRs) and relational databases.
- Cleaned large data sets to be analyzed using SAS statistical programming and SQL Data Manipulation Language (DML).
- Created and utilized SAS macros and programming to efficiently format data and assess transplant outcomes.
- Performed literature reviews and prepared research manuscripts for submission, generating all data analyses.

Duke University Clinical Research Institute

CLINICAL TRIALS ASSISTANT

Durham, NC

Feb 2015 - Apr 2016

- Coordinated with over 40 sites concurrently to ensure trial documents comply with regulatory requirements.
- Performed information management for site, project, and team activities in established database systems and spreadsheets.
- Managed development, compilation, dissemination, collection, tracking and report generation of regulatory and other essential trial documents.
- Conducted collection and tracking of completed data forms, data queries, and source documents as required.
- Maintained accurate and complete regulatory and investigator files per SOPs and established trial-specific guidelines.

Programming Proficiencies & Relevant Coursework

PROGRAMMING PROFICIENCIES

- R (tidyverse, shiny, flexdashboard) - C++ - C - SAS - SQL (MySQL, PostgreSQL) - Python - Tableau - Plotly - Github - MPlus - \LaTeX

SELECTED COURSEWORK

- Accelerated Introduction to Programming - Data Structures - Discrete Structures in Computer Science - Programming Languages: Python - Data Science I - Categorical Data Analysis - Applied Regression I & II - Pharmacoepidemiology - Advanced Statistical and Computational Methods in Genetics and Genomics - Latent Variable Modeling - Research Data Coordination - Analysis of Algorithms

GRADUATE THESIS (PUBLISHED)

- **Brennan, C.,** S.A. Husain, K.L. King, D. Tsapepas, L.E. Ratner, Z. Jin, J.D. Schold, and S. Mohan. 2019. "A Donor Utilization Index to Assess the Utilization and Discard of Deceased Donor Kidneys Perceived as High Risk." Clinical journal of the American Society of Nephrology : CJASN 14 (11).