

# John R. Chambers, Ph.D.

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Last updated: 4/4/2024

## Objective

Self-motivated data scientist/analyst with my 20+ years of experience in private industry and higher education. Seeking a data analyst/science role within an organization where I can contribute my broad range of technical skills (e.g., SQL, R, Python, Tableau), statistical and quantitative expertise, and consulting and project management background.

## Professional Skills

### SQL PROGRAMMING / DATABASE MANAGEMENT

- Expert-level SQL programmer. Capable of writing highly complex queries and other advanced SQL functions (e.g., stored procedures, views, triggers, user-defined functions, and common table expressions).
- Over 20 years of experience of managing and optimizing databases, mining large-scale data sets, and integrating disparate data sources, using SQL, R, Python, Power BI, MS Access, and MS Excel.

### STATISTICAL ANALYSIS AND MODELING

- Over 20 years of experience performing statistical analysis using common statistical software packages (e.g., SPSS, R, SAS, Python, PSPP).
- Mined large databases (e.g., National Election Surveys, General Social Surveys) using advanced statistical techniques (e.g., multilevel modeling, factor analysis, multiple regression).
- Chief statistical consultant on a National Cancer Institute-funded research project.
- Served on editorial board for 3 scholarly journals, and as ad-hoc reviewer for numerous other journals, publishing companies, and granting agencies (e.g., NSF, BSF).
- Taught graduate-level courses in quantitative research methods (advanced statistics and research methodology) and undergraduate-level courses in research methodology and statistics.

### DATA REPORTING / VISUALIZATION

- Developed a large number of business intelligence tools / web-based visualization tools (in QlikView / QlikSense, Tableau, Power BI), using a variety of data sources and with custom metrics and KPIs based on client business needs.

### PROJECT MANAGEMENT

- Over 15 years of experience managing an academic research laboratory, developing research protocols, training and supervising graduate and undergraduate students and laboratory personnel. An additional 8 years of industry experience managing healthcare analytics projects (focusing of patient healthcare utilization, costs, and medical outcomes) working closely with cross-functional teams and consulting regularly with external clients.
- Engaged in successful collaborations with numerous research partners (both domestic and international), demonstrating an ability to work effectively as part of a team, and to communicate, plan, and coordinate activities. These collaborations were successful in producing numerous publications in top professional journals and in securing grant funding from external agencies.

## Technical Proficiencies

- SQL (Expert)
- R / R Studio (Intermediate/Advanced)
- Python (Beginner/Intermediate)
- Qlikview (Advanced)
- Tableau (intermediate)
- MS Office Suite, e.g., Excel (Advanced)
- Power BI (Intermediate)
- Survey Platforms, e.g., Qualtrics (Advanced)
- FTPs, e.g., 7-Zip, WinSCP, PuTTY (Intermediate)
- SPSS (Advanced)
- SAS (Intermediate)
- VBA (Beginner)

## Employment History

### SENIOR MANAGER | INOVALON | November 2021 – PRESENT

- Performed analytics and data science-related operations for client-funded projects (clients were major Insurance, Pharmaceutical, and Biomedical companies, Healthcare Systems), managing all aspects from study protocol design, querying and cleaning data, statistical computation, reporting, and interfacing with clients.
- Developed automated/routinized analytic and reporting processes using SQL (including creation of stored procedures, user-defined functions, views), R, Python, and SAS.
- Promoted from Research Scientist to Senior Manager.

### SENIOR DATA SCIENCE CONSULTANT | DELOITTE AND TOUCHE | June 2021 – October 2021

- Consulted with a large state government seeking to modernize its healthcare and public records data warehousing and reporting platforms.
- Elevated to Team Lead and served as liaison between clients and our internal engineering team.

### DATA SCIENCE CONSULTANT | ADVENTHEALTH SYSTEM | January 2017 – June 2021

- Developed and deployed web-based dashboards (utilizing Qlikview and R) allowing clients to view and dynamically interact with large-scale data sets, primarily patient- and hospital-level records. These dashboards presented detailed point-in-time information on hospital, physician, and market competitor performance (and other KPIs and customized metrics requested by our clients).
- Developed and optimized multiple databases (utilizing various SQL platforms) for storing hospital- and patient-level records. Created stored procedures, views, and triggers for updating tables and for preparing automated monthly- and quarterly-volume reports. Wrote complex queries for extracting data for recurring and custom reports.
- Created automated reporting platforms (utilizing R, Excel, and Python) for presentation of hospital- and market-performance information to external clients.
- Performed frequent data quality and validation checks (as well as data cleansing) using R and SQL.

### ASSISTANT PROFESSOR | SAINT LOUIS UNIVERSITY | August 2013 – May 2015

- Approximately 80% of duties consisted of conducting and publishing original scientific research, involving formulation of research topic, methodological design, construction and pilot testing research materials, recruiting research participants, data management and analysis, presentation and reporting of findings (e.g., peer-reviewed publications, oral presentations at professional conferences, popular press). The remaining 20% of duties was devoted to teaching graduate and undergraduate courses, mentoring, administrative duties, grant writing, and professional service (e.g., journal editorial boards).

### ASSISTANT PROFESSOR | UNIVERSITY OF FLORIDA | August 2005 – May 2013

- Similar to above, approximately 80% of duties consisted of conducting and publishing original scientific research and presentations at scholarly conferences. The remaining 20% of duties was devoted to teaching graduate and undergraduate courses, mentoring, administrative duties, grant writing, and service to the profession (e.g., journal editorial boards).

## **Education**

### **DOCTOR OF PHILOSOPHY (PH.D.) | GRADUATED MAY 2005 | UNIVERSITY OF IOWA**

- Major: Experimental Psychology, Minor: Statistics & Research Methodology
- Related coursework: Advanced Statistics (Correlation & Multiple Regression, Experimental Designs, Structural Equation and Latent Factor Modeling)
- Grade Point Average: 3.97

### **BACHELORS OF SCIENCE (B.S.) | GRADUATE MAY 1999 | COLORADO STATE UNIVERSITY**

- Major: Psychology, Minor: Statistics
- Related coursework: Research Methodology, Introductory (Descriptive & Inferential) and Advanced Statistics
- Cum Laude honors, Grade Point Average: 3.92