

Dr. Bradley L. Goodnight

Leader in Public Health Research, Data Analytics, and Science Communication

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EXPERIENCE

Guidehouse, Atlanta— Managing Consultant

March 2022 - PRESENT

Directed fifteen junior statisticians and consultants on large-scale research projects, ensuring effective communication and team cohesion.

Pioneered the creation of an innovative consulting service line, providing comprehensive scientific research planning and administration for clients.

Led and executed six private-sector research studies for two pharmaceutical companies and a medical device manufacturer.

Oversaw numerous public sector projects at the CDC, Department of State, and Department of Defense, requiring active top-secret clearance.

Implemented best practices in data and project management, ensuring reproducibility and auditability of results using Markdown and Github.

Published extensively in reputable journals on various topics, including disparities in access to oncology precision care and violence prevention.

Guidehouse, Atlanta— Senior Consultant

October 2019 - March 2022

Provided statistical modeling and analytic support, employing techniques such as multiple imputation for missing data, structural equation modeling (SEM), and interrupted time-series (ITS) analyses.

Leveraged notable proprietary and publicly-available datasets for analysis, including data from CDC Wonder, CDC SEER, and the US Census ACS.

Conducted matching-adjusted meta-analysis for a medical device, yielding key evidence for payers via a peer-reviewed publication.

Provided statistical consulting for projects at large pharmaceutical companies on PTSD and disparities in access to specialized cancer care.

Centers for Disease Control and Prevention, Atlanta— Prevention Effectiveness Researcher

May 2017 - October 2019

Led development and implementation of sophisticated data platform and analytical tool (Palantir Foundry) for opioid overdose prevention.

Translated scientific research needs to contractors, created in-platform tools for scientists, and presented updates to CDC leadership.

Represented the NCIPC Division for Overdose Prevention (DOP) in meetings with NCHS scientists.

SKILLS

Project Leadership and Team Management

Quantitative Research Methodology and Design

Scientific Writing and Publication Management

Technical Training and Capacity Building

Cross-disciplinary Communication and Stakeholder Engagement

Healthcare and Pharmaceutical Research Expertise

Epidemiological Analysis and Public Health Evaluation

Quality Control and Reproducible Analytical Practices

Data Security and Privacy Regulations

STATISTICS

Linear/Logistic Regression

Survival Analysis

Mixed Models

Structural Equation Modeling (SEM)

Difference-in-Difference (DiD)

Interrupted Time Series (ITS)

Meta-Analysis

Factor Analysis (EFA and CFA)

Latent Class Analysis (LCA)

Item Response Theory (IRT)

Growth Curve Modeling

Designed studies using state-of-the-art methodology and data analysis and trained colleagues in modern data analytic techniques.

Institute on Community Integration, Minneapolis— Methodologist and Statistician

August 2016 - May 2017

Managed nationwide study assessing quality of life for individuals with disabilities living in community settings.

Led research activities for five junior staff, produced quantitative reports, wrote results and methods sections for publication.

Designed dynamic data visualization dashboards and provided demonstrations and training to state-level policymakers and stakeholders.

Published two papers as primary statistician and methodologist.

EDUCATION

Georgia State, Atlanta — *Ph.D. in Psychology*

August 2014 - May 2016

Experimental psychology with biostatistics focus. Specialized in psychometrics, survey design, research methodology, and statistics.

Georgia State University, Atlanta — *M.A. in Psychology*

August 2008 - August 2014

North Carolina State University, Raleigh — *B.A. in Psychology*

August 2004 - May 2008

PUBLICATIONS

Google Scholar — *For full list of publications:*

<https://scholar.google.ch/citations?hl=en&user=GrNILowAAAAJ>

Hierarchical Linear Modeling (HLM)

Bayesian Inference

Machine Learning Models (Random Forest, GLMM, etc.)

DATASETS

CDC Surveillance, Epidemiology, and End Results (SEER) Data

Social Determinants of Health (SDOH) Data (ACS, SVI)

Center for Medicare & Medicaid Services (CMS) Claims Data

Demographics and County Shapefiles from US Census

SOFTWARE

R, R Markdown, R Shiny

Tidyverse, ggplot2, lavaan

Python, SQL, Github

Mplus, SPSS, SAS, HLM

Tableau, Power BI

Palantir Foundry, AWS, Jira

Google Geocoding API, TravelTime API

Zotero, Mendeley, Endnote