Gerald A. Belton
Curriculum vitae

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EDUCATION

MS, Statistics   2018
North Carolina State University, Raleigh, NC

BA, Mathematical Sciences   2015
University of Illinois at Springfield, Springfield, IL

TEACHING EXPERIENCE

Adjunct Instructor   2019 – Present
School of Business
American Intercontinental University

Courses taught:

BUSN 311 Quantitative Methods and Analysis
In this course, students will learn the fundamentals of probability, statistics, and their applications in business decision making.

Adjunct Instructor   2018 – Present
Business/Public Service Technologies
Wake Tech Community College

- Teach Statistics Courses online and in classroom
- Utilize Blackboard Learning Management System

Courses taught:

BAS 120 Introduction to Analytics
This course introduces basic concepts and applications of analytics. Topics include an overview of the analytical process and the role of the analyst, applied descriptive statistics, and exploratory data analysis.

BAS 121 Data Visualization

This course introduces key concepts in data visualization and reporting. Topics include concepts and methods used in graphical representation of data, exploration and reporting of data, and basic linear regression methods.

BAS 150 Introduction to Analytical Programming

This course introduces SAS for analytics. Topics include utilization of analytical and statistical software packages for data management, data visualization, and exploratory data analysis.

BAS 220 Applied Analytical Programming

This course covers applications of SAS for data management and reporting. Topics include data management, data preprocessing, and modeling including linear and logistic regression analysis.

Adjunct Instructor I   2018 – Present

Department of Mathematics, Physical & Life Sciences
Embry-Riddle Aeronautical University, Worldwide Campus

- Teach Statistics Courses in the online environment
- Utilize Canvas Learning Management System

Courses taught:

CSCI 123 Introduction to Computing for Data Analysis

Students are expected to use a wide and complex set of computer tools and systems. A purpose of this course is to build upon their existing knowledge and help ensure students are proficient in common computer systems and with a skill set to solve a wide variety of data analysis problems. Using Microsoft Excel and R software along with their advanced features students will expand their understanding of computers and software while being equipped to solve large and dynamic data sets.

STAT 222 Business Statistics

This course is a study of basic descriptive and inferential statistics. Topics include types of data, sampling techniques, measures of central tendency and dispersion, elementary probability, discrete and continuous probability distributions, sampling distributions, hypothesis testing, confidence intervals, and simple linear regression.

PROFESSIONAL EXPERIENCE

Business Intelligence Developer   2019 – present

North Carolina Department of State Treasurer
State Health Plan Division, Raleigh, NC

- Interpret large amounts of healthcare data into Business Intelligence content usable for decision making.
- Work collaboratively with business users to perform healthcare data analysis.
- Assist with the development and implementation of data quality and data usage standards.
- Serve as liaison between the State Health Plan and the IT Division Coordinator.

Health Data Analyst   2018 – 2019
North Carolina Department of Health and Human Services
Medicaid Division, Office of Compliance and Program Integrity, Raleigh, NC

- Use data mining techniques to detect Medicaid fraud, waste, and abuse.
- Analyze data using SAS, R, and Python
- Conduct seminars and workshops on statistical sampling and extrapolation.
- Responsible for establishing statistical analysis and extrapolation guidelines.
- Generate and prepare data samples for audits and investigations.
- Consult with internal and external stakeholders on statistical issues.
- Analyze data for significant trends and developments and report on the findings.
- Give testimony on statistical methods at administrative hearings.

Research Director   1999 – 2018
Capitol Broadcasting, Raleigh, NC
- Leveraged highly accomplished data reporting and analysis skills to successfully deliver multiple marketing campaigns with tangible returns.
- Seen as a data subject matter expert who can quickly distill complex information and present to diverse audiences in an easy to interpret format.
- Accountable for providing tailored training for Account Executives on tactics and strategies for using market research materials and utilizing sales-specific software.
- Successfully leveraged refined data mining and reporting skills to provide the sales team with prospect lists.
- Relied upon to develop quantitative and qualitative analyses that drive actionable recommendations.
- Skilled presenter who can engage diverse audiences and deliver targeted presentations.

Research Analyst   1996 – 1999
WNOL-TV, New Orleans, LA
- Cultivated a reputation as a go-to resource offering data analysis and research services aiding colleagues to quickly uncover targeted content.

- Highly effective data analysis skill set that aids colleagues with requests for qualitative and quantitative analyses for sales and programming activities.
- Responsible for providing marketing collateral to aid the organization provide targeted key information for clients and prospects.

Data Manager   1992 – 1996
Department of Obstetrics and Gynecology
Tulane University School of Medicine, New Orleans, LA
- Advanced technical proficiency, including database management, allowed for the quick retrieval of critical data that aided in the preparation of key reports used by the organization.
- Successfully developed and delivered several database programs for the OB/GYN Residency program that allowed users to access information in a more efficient manner.
- Responsible for maintaining databases and providing on demand reports to support the program accreditation with the American Congress of Obstetrics and Gynecology.
- Skilled researcher who searched literature and databases for research in support of faculty research projects.

Research Assistant   1990 – 1992
Department of Pediatric Hematology/Oncology
Tulane University School of Medicine, New Orleans, LA
- Searched literature and databases for prior research in support of faculty research projects.
- Assisted in the preparation of manuscripts for publication.
- Worked closely with Ph.D. faculty to write grant applications.
- Collaborated with faculty to produce slide presentations for various projects.

Service Manager   1988 – 1990
Compu-Cure, New Orleans, LA
- Supervised team of service technicians.
- Performed component-level repairs of computers and peripherals.

Service Manager   1986 – 1987
Falkowski and Associates, Baton Rouge, LA

Service Manager   1981 – 1986
ComputerLand, Baton Rouge, LA

Service Technician   1980 - 1981
Superior Systems, Baton Rouge, LA

COMMITTEES AND PROFESSIONAL SERVICE

Treasurer-elect 2020 – 2021
Section for Statistical Programmers and Analysts, American Statistical Association

Local Policy Guidelines Committee 2015 – 2018
Nielsen Media Research

Speakers Bureau 2008 – 2009
National Association of Broadcasters

PRESENTATIONS

Belton, Gerald. (2019, March) *Statistical Inference with Buzz and Doris: What Dolphins Can Teach Us About Inference*, Presented at Analytics>Forward, Research Triangle Analysts, Durham, NC

Belton, Gerald. (2018, April) *Data Mining for Fraud Detection*, Presented at NC DHHS Office of Compliance and Program Integrity Boot Camp, Raleigh, NC.

Belton, Gerald. (2018, March) *Statistics for Non-Statisticians*, Presented at Analytics>Forward, Research Triangle Analysts, Durham, NC

Belton, Gerald. (2017, October) *Changes in TV Audience Measurement*, Presented at meeting of Research Triangle Analysts, Raleigh, NC

TRAINING AND CERTIFICATIONS

Training, TLS 101, Introduction to Universal Design for Learning. Wake Tech, March 2019

Certificate, SAS Certified BASE Programmer, June 2017

Certificate, Data Management for Clinical Research by Vanderbilt University on Coursera, February 2017

Certificate, Data Science, a 10-course specialization by Johns Hopkins University on Coursera, May 2016

Training, Edward Tufte: Presenting Data and Information, 2009

Training, Leadership Triangle Personal Leadership Program, 2004

PROFESSIONAL MEMBERSHIPS

American Statistical Association, 2015 – present

Mathematical Association of America 2008 – present

COMMUNITY SERVICE

Assistant Scoutmaster, Boy Scouts of America Troop 412, Durham, NC, 2009 – 2012

Commissioner, City of Durham Human Relations Commission, Durham, NC, 2001 – 2004

Scoutmaster, Boy Scouts of America Troop 79, Arabi, LA, 1996 – 1999