

Gerald A. Belton
Curriculum vitae

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TEACHING PHILOSOPHY

I believe that learning statistics can, and should, be fun. It is, after all, the mathematics of games and gambling. I am always working to communicate this sense of fun to my students.

I have seen that the best teachers are constantly engaged with their students. I prefer to work with students as a “guide by your side,” not a “sage on the stage.” The Business Statistics course I teach at Embry-Riddle is built around a series of experiments. On the first day of class the students discuss a real-world example, discover how to create a simulation model that represents the null hypothesis, and use that model to evaluate the strength of the evidence.

While engagement and fun are important, they are simply tools towards reaching the ultimate goals: providing students with problem solving strategies, enabling students to make judgments based on quantitative information, and fostering critical thinking. In this way, even an introductory course in statistics helps students develop into better citizens and better leaders.

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 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:

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.

Tutor

2018 – Present

Tutor.com, Online

- Connect online with students of all ages
- Provide homework help and tutoring
- Encourage students to engage actively with their topics to build deeper understanding.

Subjects tutored:

Statistics, Intermediate Statistics, Research Methods, Database Systems.

PROFESSIONAL EXPERIENCE

Health Data Analyst

2018 – Present

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.
- 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

Local Policy Guidelines Committee 2015 – 2018
Nielsen Media Research

Speakers Bureau 2008 – 2009
National Association of Broadcasters

PRESENTATIONS

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, FACD 302, Supporting Online Learners. Embry-Riddle, October 2018

Training, FACD 300, Teaching Within an LMS. Embry-Riddle, September 2018

Training, FACD 101, Teaching at ERAU Worldwide. Embry-Riddle, September 2018

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

REFERENCES

David Sullivan
North Carolina Medicaid
Phone 919-814-0169
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Jonathan W. Duggins
Department of Statistics
NC State University
Phone (919) 515-0636
Email jwduggin@ncsu.edu

Hei-Chi Chan
Mathematical Sciences Department Chair
University of Illinois at Springfield
Phone (217) 206-7331
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