Austin R. Brown, Ph.D.

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EDUCATION

Ph.D. Applied Statistics & Research Methods

University of Northern Colorado, Greeley, CO

Dissertation Title: A Cumulative Summation Nonparametric Control Chart for Monitoring Multiple Stream Processes Based on the Extended Median Test

M.S. Applied Statistics & Research Methods

University of Northern Colorado, Greeley, CO

Master's of Management Practice

Colorado State University, Fort Collins, CO

B.S. Business Administration

University of Northern Colorado, Greeley, CO

ACADEMIC PROFESSIONAL EXPERIENCE

Kennesaw State University

Assistant Professor, Department of Statistics & Analytical Sciences

(August 2019 - Present)

Courses Taught:

- STAT 1401: Elementary Statistics
    - Fall 2019
- STAT 3125: Biostatistics
    - Fall 2019

University of Northern Colorado

Teaching Assistant, Applied Statistics & Research Methods Department

University of Northern Colorado, Greeley, CO

(January 2016 - December 2018)

Courses Taught:

- STAT 150 (Instructor of Record) - Introduction to Statistical Analysis
    - Spring 2016, Fall 2016, Spring 2017, Spring 2018, Fall 2018
- SRM 520 - Introduction to Statistical Computing
    - Fall 2017

- SRM 522 - Introduction to R
    - Fall 2017
- SRM 551 - Mathematical Statistics with Applications I
    - Fall 2017
- SRM 552 - Mathematical Statistics with Applications II
    - Spring 2018, Fall 2018
- SRM 609 - Sampling Methods
    - Fall 2018

STUDENTS SUPERVISED

Kennesaw State University

Doctoral Level

1. Yan Wang, Ph.D. in Analytics & Data Science, Dissertation Committee Member

CONSULTING EXPERIENCE

Research Consulting Lab Consultant, Applied Statistics & Research Methods Department

University of Northern Colorado, Greeley, CO

(August 2015 - May 2017)

Senior Research Consulting Lab Consultant, Applied Statistics & Research Methods Department

University of Northern Colorado, Greeley, CO

(August 2016 - May 2017)
(January 2019 - May 2019)

NON-ACADEMIC PROFESSIONAL EXPERIENCE

Credit Analyst, Crop Production Services

Loveland, CO

(November 2014 - August 2015)

- Performed financial statement analysis to determine creditworthiness of prospective borrowers
- Gathered borrower, regional, and market specific data to understand credit risk in context

Credit Analyst, Morgan Federal Bank

Fort Morgan, CO

(December 2013 - November 2014)

- Analyzed and projected financial performance of prospective commercial and agricultural borrowers
- Modeled bank foot traffic to give validity to management adjusting bank hours
- Extensive research into various municipalities' economic trends to grade the bond portfolio

- Research into bank customer behavior locally and nationally by age group to give credence to new banking products

JURIED PUBLICATIONS

Brown, A. & Whitehead, B. (2019). Evaluating Techniques for Detecting Normal Mixtures in Phase I for the Shewhart $\bar{X}$-Chart. UNDER REVIEW BY: *Quality Engineering.*

Brown, A. & Schaffer, J. (2019). A Nonparametric CUSUM Control Chart for Multiple Stream Processes Based on a Modified Extended Median Test. UNDER REVIEW BY: *Communications in Statistics - Theory and Methods.*

WORKSHOPS PRESENTED

Introduction to R Statistical Software

- September 2015, January 2017

Introduction to SAS

- October 2015, November 2015, February 2016, September 2016, October 2016, January 2017

Simple Linear Regression & Multiple Linear Regression in SAS & SPSS

- November 2015

Introduction to Regression Analysis in SAS

- January 2016, March 2016, September 2016, October 2016, November 2016, January 2017

Introduction to Regression Model Diagnostics using SAS

- April 2016, October 2016, November 2016, January 2017, February 2017

Introduction to Data Management using Excel

- November 2016

Professional Graphics using SAS

- February 2017

Visualizing Spatial Data using R

- September 2018

NON-JURIED PRESENTATIONS

Brown, A. *Nonparametric Statistical Process Control.* Oral Presentation at: Kennesaw State University Department of Statistics & Analytical Sciences Research Networking Event. 2019 October. Kennesaw, GA.

Brown, A., Whitehead, B. *Effects of Mixture Distributions on the Phase I and Phase II Performance of Shewhart-style Charts.* Poster Presented at University of Northern Colorado Research Day. 2019 April. Greeley, CO.

Aljobaily, H., Whitehead, B., Brown, A., Wagya, K. *Comparing the Performance of ESL and English-Native Speaking Students in an Introductory Level Statistics Course.* Poster Presented at University of Northern Colorado Research Day. 2019 April. Greeley, CO.

Brown, A., Aljobaily, H., Whitehead, B. *A Two Chart Technique for Simultaneous Monitoring of the Parameters of the Shifted Exponential Distribution using Bayesian Estimation.* Poster Presented at University of Northern Colorado Research Day. 2018 April. Greeley, CO.

JURIED PRESENTATIONS

Brown, A., & Whitehead, B. *Bootstrapping Regression Models using PROC SURVEYSELECT.* Contributed Oral Presentation at: Southeastern SAS Users Group Conference. 2019 October. Williamsburg, VA.

Brown, A., Tsai, C., & Tian, L. *Pre-College Academic Motivation and Postsecondary Enrollment among First-Generation College Students: Findings from the Education Longitudinal Study of 2002 (ELS 2002).* American Psychological Association Annual Conference. 2019 August. Chicago, IL.

Whitehead, B. & Brown, A. *Effects of Mixture Distributions on Phase I and Phase II Performance of Shewhart Style Charts.* Poster Presented at: Joint Statistical Meetings. 2019 July. Denver, CO.

Brown, A. *Missing Ethical Guideline Handling Techniques in Simulation Studies.* Poster Presented at: University of Northern Colorado Research Evening. 2019 April. Greeley, CO.

Brown, A., Koziol, M., Kortizansky, A. *Academic Persistence in Graduate Students: an Examination of the Association Between Mental Health and the Intent to Persist.* Poster Presented at: University of Northern Colorado Research Evening. 2019 April. Greeley, CO.

Brown, A. *Using PROC MCMC in a Process Control Setting: An Illustrative Example with PROC IML.* Contributed Oral Presentation at: Western Users of SAS Software Conference 2018. 2018 September. Sacramento, CA.

https://www.lexjansen.com/wuss/2018/19_Final_Paper_PDF.pdf

Tsai, C., Cheng, H., Brown, A. *School Motivation and Postsecondary Persistence of 10th Graders.* Poster Presented at: 2018 APA Annual Convention. 2018 August. San Francisco, CA

Schaffer, J., Brown, A. *The Effect of Player Injuries on Major League Baseball Team Performance: A Longitudinal Analysis of the 2014-2017 Regular Season.* Poster Presented at: Joint Statistical Meetings. 2018 July. Vancouver, B.C., Canada.

Brown, A., Aljobaily, H., Whitehead, B. *A Bayesian Quality Control Technique for the Simultaneous Monitoring of the Parameters of the Shifted Exponential Distribution.* Poster Presented At: Joint Statistical Meetings. 2018 July. Vancouver, B.C., Canada.

Younis, M., Wilson, L., Brown, A., Morgan, B. *The Sufi Female Leaders Lived Experience in North America: A Case Study.* Contributed Oral Presentation at: University of Northern Colorado Research Evening. 2018 April. Greeley, CO.

Brown, A., Whitehead, B. *Using PROC IML to Examine the Efficacy of a New Control Chart Technique.* Contributed Oral Presentation Presented at: SAS Global Forum 2018. 2018 April. Denver, CO

Younis, M., Wilson, L., Brown, A., Morgan, B. *The Sufi Female Leaders Lived Experience in North America: A Case Study.* Poster Presented at 2018 Rocky Mountain Psychological Association Convention. 2018 April. Denver, CO.

Brown, A., Whitehead, B. *Examining the Performance of a Control Chart for the Shifted Exponential Distribution using Penalized Maximum Likelihood Estimation: A Simulation Study using SAS.* Contributed Oral Presentation Presented at: Western Users of SAS Software Conference 2017. 2017 September. Long Beach, CA.

https://www.sas.com/content/dam/SAS/support/en/sas-global-forum-proceedings/2018/2894-2018.pdf

Brown, A., Whitehead, B. *A Control Chart for Joint Monitoring of Parameters of a Shifted Exponential Distribution under Penalized Maximum Likelihood Estimation.* Poster Presented at: Joint Statistical Meetings. 2017 August. Baltimore, MD.

Ramezani, N., Duck, K., Brown, A., Floren, M., Hinerman, K., Lalonde, T. *Longitudinal Modeling in Applied Research: Implications for Improving Practice.* Speed Session Presented at: Joint Statistical Meetings. 2017 August. Baltimore, MD.

Ramezani, N., Duck, K., Brown, A., Floren, M., Hinerman, K., Lalonde, T. *Longitudinal Modeling in Applied Research: Implications for Improving Practice.* Poster Presented at: Joint Statistical Meetings. 2017 August. Baltimore, MD.

Hinerman, K., Lalonde, T., Ramezani, N., Duck, K., Floren, M., Brown, A. *Methodological Considerations of Longitudinal Modeling in Applied Educational Research: Implications for Improving Practice.* Poster Presented at: Society for Research on Educational Effectiveness Spring 2017 Conference. 2017 March. Washington, D.C.

PRESS RELEASES

American Statistical Association. (2018, July 18). *Are Star Players Over-Rated in MLB? A Key Statistic Doesn't Stand Up to Scrutiny* [Press Release]. Retrieved from: http://amstat.org/asa/files/pdfs/pressreleases/JSM2018-Are-Star-Players-Over-Rated-in-MLB.pdf

GRANTS

UNC Graduate Student Association Research/Conference Grant

Role: Presented original research at the Western Users of SAS Software Conference 2017. (Fall 2017).

UNC Assessment Council Research Grant

Role: Contracted through the grant as a data assistant and longitudinal journal reviewer (Summer/Fall 2016)

HONORS & AWARDS

UNC College of Education and Behavioral Sciences Graduate Scholar. University of Northern Colorado. April 2019.

Western Users of SAS Software 2018 Student Scholarship. Western Users of SAS Software. September 2018.

Hutchinson-Lahman Research Excellence Award. University of Northern Colorado Research Evening. April 2018.

PROFESSIONAL REFERENCES

1. Dr. Jay R. Schaffer; jay.schaffer@unco.edu

2. Dr. Trent Lalonde; trent.lalonde@unco.edu

3. Dr. Khalil Shafie; khalil.shafie@unco.edu