DEAN DE COCK

2240 Violette Hall Truman State University Kirksville, MO 660-785-7367 decock@truman.edu

EDUCATION

Ph.D. Co-major, Statistics and Industrial Engineering, December 2003 Iowa State University, Ames, Iowa Research topic: Kriging as an Alternative to Polynomial Regression in Response Surface Methodology

M.S. Quality Management and Productivity, December 1994 University of Iowa, Iowa City, Iowa

B.S. Mechanical Engineering, December 1990 Iowa State University, Ames, Iowa

TEACHING EXPERIENCE

Course work at Truman State University, Kirksville, Missouri (8/01-present)

Professor of Statistics (2020-present) *Board of Governors title change approved 10/24/2020 Professor of Mathematics (2012-2020)

Associate Professor of Mathematics (2006-2012)

Assistant Professor of Mathematics (2001-2005

Responsible for all facets of these statistics and mathematical courses creating my own lectures, labs, quizzes and exams. Subject matters covered include Introductory Statistics, ANOVA, Design of Experiments, Regression, Quality Control and Operations Research.

- STAT190 **Basic Statistics** (23 Sections) a non-calculus based introductory course focusing on descriptive and inferential statistics. Topics covered include correlation, regression, confidence intervals, and one and two sample hypothesis testing for means and proportions.
- STAT330 Introduction to Linear Models (3 Section) a course combining the basic concepts of both experimental design and regression analysis. The principles of experimental design include randomization, replication, and blocking in single and multifactor experiments. Regression concepts focus on an introduction to inferential methods related to simple and multiple linear regression with an emphasis on model formulation, assumption verification, model selection, and interpretation of results.
- STAT331 **Biostatistics** (2 Section) the course gives the student a basic introduction to the theory and a solid exposure to the practice and application of statistical methods applicable to biological data. Attention is primarily given to one-way ANOVA, basic linear and logistic regression, and Chi-Square and Non-Parametric methodologies.
- STAT374 **Statistical Quality Control** (19 Sections) Basic techniques of statistical quality control. Applications of Shewhart, CUSUM, and demerits control charts for monitoring process performance. Additional material on acceptance sampling and gage capability studies. Intensive use of Minitab software.
- STAT375 ANOVA/Experimental Design (46 Sections) The principles of experimental design including randomization, replication, and blocking in single and multifactor experiments. Focusing on contrast and multiple comparison methods for analysis of variance. Additional material on ANCOVA and split plot designs.
- STAT378 Linear Regression/Time Series (22 Sections) Regression analysis with applications in simple and multiple linear regression. Focus on model formulation, assumption verification, model selection, and interpretation of analysis results. Intensive use of statistical software.
- STAT475 **Design of Experiments** (1 Section) Experimental designs including single and multifactor experiments, Randomized Block Designs, Analysis of Covariance, and Split Plots. Focusing on multiple comparison methods, orthogonal contrasts and sets, fixed versus random effects, power, and proper model selection techniques.

- STAT486/487 **Topics/Readings in Statistics** (2 Sections) Special independent study classes conducted at the request of students to investigate advanced statistical topics.
- STAT497 Statistics Capstone Experience (3 Section) A culminating experience in which the student demonstrates skills and knowledge garnered from his or her experience within the Statistics program. Students complete a major project that synthesizes new work with previous coursework.
- STAT498 Senior Seminar in Statistics (3 Section) Provides students the opportunity to envision how the major fits into the cohesive whole and be introduced to statistical themes not encountered in previous courses of study.
- MATH400 **Methods of Optimization** (3 Sections) Operations research models with an emphasis on linear programming. Focus on the simplex method, duality and sensitivity analysis. Additional coverage of transportation and network optimization models.

Non-course work at Truman State University, Kirksville, Missouri (8/01-present)

Guest Lecturer – The Next STEP program

Led Workshops within Truman's STEP program whose goal is to increase graduates within the STEM disciplines by promoting student/faculty interaction.

- What Data Do I Need to Answer My Question (May 28, 2009) Introduced the concept of ideal versus actual variable selection for a given research hypothesis. Stressed the use of simulation to create initial artificial data sets for identification of proper graphical and statistical techniques.
- Data Synthesis and Presentation (July 20, 2005) Introduced students to various methods of summarizing data including text, tables, figures, and appendices. Discussed strategies for optimal presentation of results within written and oral reports.

Guest Lecturer – Department of Business

Led faculty development workshop

• ANOVA/Design of Experiments (November 13, 2013) – Reviewed the defining concepts of Regression and Experimental Design. Demonstrated the basic concepts common in experimental design including randomization, blocking, and factorial designs, while simultaneously reviewing the availability of various computer packages on campus.

Course work at University of Northern Iowa, Cedar Falls, Iowa (November 3rd, 2007)

Invited speaker – Mathematics Department

Guest Lecturer for the seminar series within the Professional Science Master's (PSM) program.

• 800:289 – Seminar in Lean and Six Sigma Methods in Industry (2 Modules) - Taught two three-hour modules covering introductory material on Design of Experiments with additional material on Blocking and Factorial Designs.

Course work at University of Iowa, Iowa City, Iowa (September 27th, 2010)

Guest Lecturer – Department of Statistics and Actuarial Science

• 22s:39 – **Probability and Statistics for the Engineering and Physical Sciences** (2 Classes) – Presented material demonstrating the importance of statistics in today's industrial environment.

Course work at Iowa State University, Ames, Iowa (8/97-12/98)

Teaching Assistant – Statistics Department

Responsible for all facets of these statistics courses creating my own lectures, labs, quizzes and exams.

- STAT104 **Introduction to Statistics** (2 sections) Statistical concepts with an emphasis on problems from biological fields. Coverage of discrete and continuous random variables, point and interval estimates, and tests of simple hypothesis.
- STAT201 Applied Regression Analysis for Business (1 Section) Regression analysis with applications in simple and multiple linear regression. Focus on model formulation, model diagnostics, model selection, and interpretation of ANOVA and time series analysis.

Non-course work at Iowa State University, Ames, Iowa (1/99-5/01)

Consultant to the Engineering College – Statistics Department

Responsible for assisting professors and graduate students within the College of Engineering with the collection, analysis and presentation of thesis data.

Student Mentoring at Truman State University, Kirksville, Missouri (8/01-present)

Graduate Committees and Theses

- Sarah Gainer (2021) "Seasonality and Trends of *Amblyomma americanum* Nymph Life Stage Activity and Correlation with Human Ehrlichiosis in Missouri", Biology Honors Manuscript
- Jessica Plaggenberg (2021) "Fine-scale estimates of genetic population structure and genetic neighborhood size in the Creek chub, *Semotilus atromaculatus*", M.S. Committee.
- Robbie Rader (2012) "Katydid Ecology", M.S. Committee.
- Melissa Wright (2011) "Morphological Clinal Variation and Assessment of Sub specific Taxonomy in the Boa constrictor", M.S. Committee.
- Matt Miles (2008) "Acute Effects of an NF-κB Inhibitor on the Resting Membrane Potential of the Triangularis Sterni Muscle in the mdx Mouse: A Model for DMD", M.S. Committee.
- Matt Basf (2006), "Prey Selection within a Southeastern Missouri Bat Community", M.S. Committee.
- Kathryn Sucher (Spring 2005). "The Effects of Syntactic Complexity and Stage of Disease on Language Comprehension in Persons with Dementia of the Alzheimer's Type" M.S. Committee.

NSF Funded Undergraduate Research

- Tracey Blasingame, Nathan Whelan, and Bryan Hartwig (2007), "Statistics and Phylogenetic Community Ecology", Research-focused Learning Communities in Mathematical Biology, NSF funded program at Truman State University.
- Robbie Rader and Mark McKelvey (2005), "The effects of prescribed burning in grasslands on the population structure of predatory beetles: a spatial modeling approach", Research-focused Learning Communities in Mathematical Biology, NSF funded program at Truman State University.

Senior Capstone Advising (Individual Mentor)

- Erica VanCleave (Spring 2017)."Breast Cancer Classification by Means of Logistic Regression"
- Emily Mausshardt (Spring 2017)."2^k Factorial Designs"
- Elizabeth Deen (Spring 2015). "Determining Hitting Streaks in Baseball Using Statistics"
- Mark Schneider (Spring 2013). "Linear Programming and the Von Neumann Minimax Theorem"
- Seth Raithel (Spring 2013). "Decision Analysis and Decision Trees"
- Daniel Wood (Spring 2013). "Linear Programming and Pokemon Video Games"
- Colleen McNamee (Spring 2012). "Can Money Buy Sports Success"
- Megan Shoaf (Spring 2010). "Data Envelopment Analysis and Graduation Rates"
- Bryan Hartwig (Spring 2009). "My Mathbio Experience: An Investigation into the Statistics of Phylogenetic Community Ecology"
- Brian Manning (Spring 2009). "Traffic Flow"
- Jessica Cole (Spring 2008). "Principal Components Analysis"
- Tony Lam (Spring 2008). "Using Ordinary and Ordinal Logistic Regression to Predict Math Grades"
- Mark Mc Kelvey (2006). "The Spatial Ecology of the Ground Beetle Evarthus alternans in Burned and Unburned Grasslands"
- Micaela Walter (2006). "Survival Analysis"
- Amy Hoeksema (2006). "Using Monte Carlo Simulations to Find a Suitable Estimator for Bycatch Weight on Individual Trips in the Marine Fisheries"
- Katie Gustafson (Fall 2004). "Discriminant Function Analysis and the Identification of Bats"
- Charlotte Cooper (Spring 2003). "Regression and Archeology"
- Nicholas Garner (Fall 2002). "A Regression Analysis of Factors Affecting Golf Scores"
- Jennifer Lehr (Fall 2002). "Survival Analysis/Reliability Engineering"
- Jeff Nepple (Fall 2002). "CDNA Microarray Technology".

Senior Capstone Advising (STAT497)

- Kevin Donahue (2022). "Linear Discriminant Analysis".
- John George (2022). "Comparing ANOVA and ANCOVA".
- Erin Gillespie (2022). "Factorial Design".
- Matt Klekar (2022). "Maximum Likelihood Estimators: Logistic Regression".
- Ian Nehring (2022). "Cluster Analysis: K-Means and Hierarchical Clustering".

- Tucker Olson (2022). "Time Series Analysis: ARIMA Models in R to Forecast Baseball Data".
- Victor Wei (2022). "Stochastic Processes and Markov Chains".
- Anup Adhikari (2019). "Forecasting using the Univariate Time Series"
- Ben Forsythe (2019). "Logistic Regression Capstone"
- Blane Harper (2019). "Generalized Linear Mixed Models: Statistical Modelling of Applied Behavior Analysis"
- Shafayet Hossaiin (2019). "Correspondence Analysis"
- Cole Keiper (2019). "Methods of Regression"
- Austin Mayer (2019). "A Markov Chain Analysis of Financial Market Predictions"
- Kai Murphy (2019). "Cluster Analysis"
- Amulya Pandey (2019). "Bayesian Inference in Machine Learning: An overview of Bayesian Methods in ML"
- Samantha Phillippe (2019). "Bayesian Methods of Data Analysis & Statistical Programming"
- Adam Stolley (2019). "Actuarial Survival Analysis"
- Jennifer West (2019). "Parametric vs. Nonparametric Statistical Procedures"
- Sam Edeus (2018). "Measures of Association"
- Mae Kinkade (2018). "Sequential Analysis and Evolutionary Operation"
- Tim Kotras (2018). "The ARIMA Model in Time Series Analysis"
- Melissa Lee (2018). "Survival Analysis"
- Jerry Lin (2018). "Cluster Analysis"
- Abby Martin (2018). "Introduction to ANCOVA"
- Jason Odom (2018). "Multivariate Analysis of Variance (MANOVA)"
- Jake Socha (2018). "Nonparametric Statistics"

Student Research Conference (Truman State University) Faculty Mentor

- Sarah Gainer (2021) Seasonality and Trends of *Amblyomma americanum* Nymph Life Stage Activity and Correlation with Human Ehrlichiosis in Missouri.
- Nicholas Jacobson (2010). How did he get her? The effects of radiating beauty in romantic relationships.
- Matthew Macari (2009). Calculating the Cost of a Document Control System Using Markov Processes.
- Crystal Cunningham (2008). Determination of Dominance Hierarchy and the Influence of Preferred Association.
- Amy Arel (2007). The Effect of Age on Discrimination Reversal Learning
- Kate Randall (2007). Levels of Aggression in Quarter Horse Mares and the Social Impacts of the Foal
- Alana Walker (2006). Allometric scaling of equids (Equus caballus) in a continuum of body sizes
- Kathryn Smith and Tammy Bragg (2006). Development of a Prediction Equation for Total Body Mass Across Three Sizes of Equids (*Equus caballus*)
- Steven Webb, Jennifer Glass, and Jennifer Lane (2006). An Initial Attempt to Develop a Cantaloupe Production System for Northeast Missouri.
- Jeffery Skinner (2003). Influence of Burning on Changes in Size, Shape, and Random Amplified Polymorphic DNA (RAPD) Profile Composition of *Vaccinium Stamineum* L. Patches.
- Jake Czeschin (2003). Athletics Publicity and Freshman Recruitment at Truman State University and University of Missouri-Columbia.
- Jeff Nepple (2003). The Determination of Differential Gene Expression Using cDNA Microarrays and Statistical Analysis

Off-Campus Mentoring of Student Organization Visits to Industry

- SPRECTRA trips to Cargill, Pioneer, Poet, Kirksville Water & Wastewater Treatment Plants (2010/2011)
- MathBio trip to Monsanto and the Danforth Center, Saint Louis, MO (2008).
- STEP trip to MRI and Bayer Crop Science, Kansas City, MO (2007).
- SMaCS trip to Ford and Cerner, Kansas City, MO (2005).
- MathBio trip to Monsanto and the Danforth Center, Saint Louis, MO (2004).
- TWICS-SMaCS trip to Towers Perring and Boeing, St. Louis, MO (2003).
- TWICS-SMaCS trip to Boeing and the FBI, St. Louis, MO (2002).

INDUSTRIAL EXPERIENCE

Mechanical and Quality Engineering Positions (5/90 – 8/00)

Internships and Full-time Employment

Various positions within industry and academia involving mechanical and quality engineering. Skills involved include project management and the applications of statistics and quality control methods in industrial situations.

- Maytag, Newton, IA Staff Quality Engineer (2 years)
- ALCOA, Davenport, IA Mechanical Engineer (2 years)
- 3M, Minneapolis, MN Quality Engineering Intern (6 months)
- Corning Inc., Corning, NY Environmental Products Intern (3 months)
- Lennox Corporation, Marshaltown, IA Quality Engineering Intern (3 months)
- Iowa State Gasification Laboratory, Ames, IA Research Assistant (2 years)

PUBLICATIONS & PRESENTATIONS (* indicates undergraduate co-author)

- D. De Cock. "Skills Mapping". Strategic Planning and Assessment Workshop (SPAW) Truman State University, August 19th, 2021, Kirksville, MO.
- Colpoys, J.; DeCock, D. Evaluation of the FitBark Activity Monitor for Measuring Physical Activity in Dogs. Animals 2021, 11, 781. https://doi.org/10.3390/ani11030781
- D. De Cock. "Campus and Assessment Data". Strategic Planning and Assessment Workshop (SPAW) Truman State University, August 16th, 2019, Kirksville, MO.
- D. De Cock. "Faculty Compensation, Moving Ahead". Strategic Planning and Assessment Workshop (SPAW) Truman State University, August 17th, 2018, Kirksville, MO.
- D. De Cock. "Alternative Scholarship Systems". Truman State University Admission Office, October 23, 2015, Kirksville, MO.
- D. De Cock. "ACT Scores and Their Relationship to Current Enrollments". Truman State University Office of the President, August 31, 2015, Kirksville, MO.
- B. Kramer, T. Walston, and D. De Cock. "SPRECTRA Summer Scholars: Preparing Students for STEM Degrees". Truman State University Faculty Research Conference, February 19, 2015, Kirksville, MO.
- D. De Cock. "Transfer Trends with STEM at Truman State". Transfer Success in STEM Summit, November 14-15, 2013, Kirksville, MO.
- R. Graber, D. De Cock, and M. Burton. "A Guttman-based Approach to Identifying Cumulativeness Applied to Chimpanzee Culture", Cross-Cultural Research, 2012.
- D. De Cock. "Ames, Iowa: Alternative to the Boston Housing Data as an End of Semester Regression Project", Journal of Statistics Education Volume 19, Number 3 (2011).
- D. De Cock. "Mathematics Placement at Truman State University" Missouri MAA meetings, April 1, 2011, Columbia, MO.
- R. Graber and D. De Cock. "Chimpanzee Cultures: Random Outcomes, or Evolutionary Progressions?" Truman State University Faculty Research Conference, September 25, 2010, Kirksville, MO.
- D. De Cock, J. Gering, T. Blasingame*, N. Whelan* and B. Hartwig*. "The W Statistic: A New Approach for Testing the Relative Abundance Structure of Communities in a Phylogenetic Context" Evolution Joint Annual Meeting of SSE, SSB, ASN, June 20-24, 2008. Minneapolis, MN.
- T. Blasingame*, B. Hartwig*, N. Whelan*, J. Gering, and D. De Cock. "The W Statistic: A New Approach for Testing the Relative Abundance Structure of Communities in a Phylogenetic Context" SMB/JSMB Joint Annual Meetings, July 31-Aug 3, 2007, San Jose, CA.
- N. Whelan*, B. Hartwig*, T. Blasingame*, D. De Cock, J. Gering. "Effects of Phylogenetic Tree Topology and Local and Regional Species Richness on NRI and NTI Distributions" SMB/JSMB Joint Annual Meetings, July 31-Aug 3, 2007, San Jose, CA.
- S. Allen and D. De Cock (2007). A Quantitative Assessment of Quality of US Vehicles in Service. *Proceedings of the International Conference on Industry, Engineering, and Management Systems*. Cocoa Beach, FL, pp 606-611.
- R. Rader*, M. Mc Kelvey*, J. Gering, and D. De Cock. "The effects of Management Practices on the Activity Density and Spatial Structure of the Carabid Beetle Evarthus alternans in a Northeast Missouri Grassland" US-IALE Annual Symposium, March 29-31, 2006, San Diego, CA
- S. Allen and D. De Cock (2006). Creating a Comparitive Post-Manufacturing Quality Index (QI) for Vehicles in Service. *Proceedings of the International Conference on Industry, Engineering, and Management Systems*. Cocoa Beach, FL, pp 543-547.

- D. De Cock. "A New System of Mathematics Placement" Missouri MAA meetings, April 1, 2005, St. Josephs, MO.
- D. De Cock. "Retention and the Mathematical Experience", Truman State University Assessment Colloquium, February 23, 2004, Kirksville, MO.
- D. De Cock. "On Finding Mixed Orthogonal Arrays of Strength 2 With Many 2-Level Factors" First Midwest Conference for New Directions in Experimental Design, May 18-20, 2000, Columbus, OH
- D. De Cock and J. Stufken (2000). On Finding Mixed Orthogonal Arrays of Strength 2 With Many 2-Level Factors. *Statistics and Probability Letters*, 50, 383-388.

CONFERENCES ATTENDED

- 2023 Symposium on Data Science and Statistics, May 23-26, Saint Louis, MO.
- 2021 USCOTS: United States Conference on Teaching Statistics, June 28-July 1, Virtual
- 2021 HLC (Higher Learning Commission) Annual Conference, April 5-9, Virtual
- 2018 Joint Research Conference on Statistics in Quality, Industry, and Technology, June 11-14, Santa Fe, NM.
- 2016 ATSU Interdisciplinary Biomedical Research Symposium, November 5, 2016, Kirksville, MO.
- 2016 60th Annual Fall Technical Conference, October 6-7, Minneapolis, MN.
- 2015 University of Iowa Department of Statistics and Actuarial Science Semi-Centennial Symposium, April 24-25, 2015, Iowa City, IA.
- 2014 ATSU Interdisciplinary Biomedical Research Symposium, November 1, 2014, Kirksville, MO.
- 2013 Transfer Success in STEM Summit, November 14-15, 2013, Kirksville, MO.
- 2013 ATSU Interdisciplinary Biomedical Research Symposium, November 2, 2013, Kirksville, MO.
- 2013 ASA Mid-Missouri Chapter Day Course Successful Data Mining in Practice, October 19, 2013. Columbia, MO.
- 2012 ATSU Interdisciplinary Biomedical Research Symposium, September 29, 2012, Kirksville, MO.
- 2011 ATSU Interdisciplinary Biomedical Research Symposium, October 22, 2011, Kirksville, MO.
- 2011 55th Annual Fall Technical Conference, October 13-14, Kansas City, MO.
- 2011 Spring Meeting of the Missouri MAA, April 1-2, 2011, Columbia, MO.
- 2010 ATSU Interdisciplinary Biomedical Research Symposium, October 9, 2010, Kirksville, MO.
- 2010 Joint Statistical Meetings, August 6-10, 2010, Vancouver, BC.
- 2009 Celebrating 75 years of Statistics at Iowa State, June 3-5, 2009, Ames, IA.
- 2009 Spring Meeting of the Missouri MAA, April 16-18, 2009, Kirksville, MO.
- 2008 Evolution Joint Annual Meeting, June 20-24, 2008. Minneapolis, MN.
- 2007 Society for Mathematical Biology Annual Meeting, July 31-Aug 3, 2007. San Jose, CA
- 2007 Spring Research Conference on Statistics in Industry and Technology, May 21-23, 2007. Ames, IA.
- 2006 Joint Statistical Meetings, August 6-10, 2006, Seattle, WA.
- 2006 US-IALE Annual Symposium, March 29-31, 2006. San Diego, CA
- 2005 Joint Statistical Meetings, August 7-11, 2005, Minneapolis, MN.
- 2005 Spring Meeting of the Missouri MAA, April 1, 2005, St. Joseph, MO.

UNIVERSITY SERVICE

Director of Assessment (2017-2023)

• Responsible for coordinating the Five-Year Program Reviews and the Portfolio Project, chairing the Assessment Committee, serving as the liaison for the Multi-State Collaborative, and completing other activities related to institutional assessment

Mathematics Placement Coordinator

• Responsible for placing all incoming freshman into their first mathematics class (2007, 2008, 2009, and 2010 Freshman Cohorts)

University Committees and Service

- Strategic Planning on Oversight Committee (SPOC) 2022, 2023)
- HLC Reaccreditation Steering Committee 2023-2025)
- Civics Exam Committee 2021

- SEM Works Strategic Enrollment Intelligence Team & Student Retention Team (2019)
- Retention Council and Task Force (2018, 2019)
- Online Strategic Plan Review Committee (2018)
- Faculty Compensation I (2017-2018) & II (2018-2019) & III (2019-2020)
- HLC Midpoint Review Committee (2018)
- Academic Calendar Task Force (2014)
- Institutional Review Board (IRB) (2011-2019)
- Statistical Computing Task Force, Chair (2010)
- Financial Aid/Scholarship/Work Service Working Group (2008)
- Assessment Analysis and Report Group (ARG) (2004-2007)
- Committee on Degree Differences and Credit Allocation, Chair (UGC) (2005)
- Benchmarking the LSP (UGC) (2005)
- Evaluating Statistics as an Essential Skill (2004)
- Evaluating Computer Literacy as an Essential Skill (2004)
- Criterion V (2003-2004)
- Council on Teacher Education (2003)
- Portfolio Reading (2002, 2003, & 2004)

Departmental Committees

- Midpoint Review Committee Shanshan Lv (Chair 2022)
- Midpoint Review Committee Jeonghwa Lee (2022)
- Midpoint Review Committee Scott Thatcher (Chair 2021)
- Stat/CS/Math Foundation Scholarship Selection Committee (2015-present)
- Search Committees for Statistics Faculty (2014, 2015, 2016 (Chair), 2017, 2018 & 2022)
- Assessment Committee (2018-2022, Chair 2019-2021)
- Statistics Committee- (2008 2013, Chair 2009)
- Institutional Review Board (Coordinator) (2011-present)
- Liberal Studies Program (2002 2013)
- Computer Issues Committee (2002 2013)
- Evaluating Elementary Functions as an Essential Skill (2004)
- Evaluating the Mathematical Mode of Inquiry (2004)
- Search Committees for Mathematics Faculty (2004, 2005, & 2008)
- Search Committees for Computer Science (2012)

Student Organizations

• Co-advisor - Kappa Mu Epsilon (2004 – 2013)

PROFESSIONAL MEMBERSHIPS

- American Statistical Association (ASA)
- American Society of Quality (ASQ)
- Mathematical Association of America (MAA) (2004-2016)

PROFESSIONAL SERVICE

Article Reviewer/Referee

- American Statistician (2012)
- Journal of Statistics Education (2011)
- Technometrics (2001)

Program Reviewer

• Department of Mathematics & Statistics, University of Wisconsin – Lacrosse (2018)

GRANTS AND AWARDS

- Co-Investigator Morris Animal Foundation Grant (2019)
- Senior Personnel Truman's IUSE Ascend Scholars NSF Grant (2015 non-funded)

- Senior Personnel Truman's SUCCEED Initiative, NSF STEP Grant (2013 non-funded)
- Statistical Consultant Truman's NSF Scholarships in STEM (SSTEM) Grant (2013-present)
- Educator of the year Semi-finalist Student Senate Award (2010)
- Research-focused Learning Communities in Mathematical Biology NSF (2005 & 2007)
- Scholarship of Assessment Grants Truman State University (2003 & 2004)