

Katherine Renee Fister

2007 Atkins Way, Murray, KY 42071
Cell Phone: 270-519-9856
Email: krfister@gmail.com

Education

- Ph.D. University of Tennessee, Knoxville (mathematics), 1996.
Thesis Title: Applications of Optimal Control
GPA: 3.98
- M.S. University of Tennessee, Knoxville (mathematics), 1992.
Thesis Title: Optimal Control of a Heat Flux in a Parabolic Partial
Differential Equation
GPA: 4.0
- B.A. Transylvania University (mathematics), 1990.
GPA: 3.95 (Magna Cum Laude)

Professional Development

Harvard Institute for Educational Management Program July 2016

Professional Experience

Murray State University

Chief of Staff

July 1, 2017 – present

The Chief of Staff position expands on the role for Senior Presidential Advisor for Strategic Initiatives with the additional qualifier of having supervisory responsibilities as conditions and circumstances warrant, at the direction of the President. Cooperative and collaborative work with each Vice President is mandatory in this position. Work with each direct report to the President is essential. Responsibilities have increased related to outreach to constituency groups as Faculty Senate, Staff Congress and Student Government Association. Work in collaboration with Enrollment Management has provided opportunities to assist with development of new strategies and outreach for recruitment with particular emphasis on underrepresented groups. Direct work with initiatives to increase retention have led to programs for personal attention for struggling students. Coordinated work for revamping the Mission Statement of the University in 2017 led to better understanding of the goals of the University. Serving as the supervisor to WKMS, Murray State University's NPR station and Institutional Effectiveness has introduced managerial and budgetary benefits to direct. Title IX assistance with the Director of the Institutional Diversity, Equity and Access have involved presentations to the Board of Regents and work with the Kentucky Council on Postsecondary Education. Leading adhoc groups for Camps and Facilities and Non-Discrimination Policies have afforded opportunities to work across disciplines and vice-presidential areas.

Katherine Renee Fister

I retain my tenure and status as a Professor of Mathematics and Statistics within this role.

Senior Presidential Advisor for Strategic Initiatives Sept. 15, 2014 – June 30, 2017

The Senior Presidential Advisor for Strategic Initiatives works closely with the President and provides support in the directives of the President's Office. I assist the President on matters regarding internal and external constituency groups, direct communication to the President in an efficient manner, coordinate reports and data as requested and work closely with administration. I serve the President in enhancing communication and collaboration with faculty, staff, students, administrative units, alumni, and the community. I lead the Strategic Plan with a team of chairs who work collectively with an Executive team to effect change and work toward obtaining the goals and completion of metrics aligned with Academic Excellence, Student Success, Research, Scholarship and Creative Activity and Community Engagement. In this role, I have been afforded opportunities to work in a position similar to an executive assistant to the President with close communication with the Vice Presidents, budget analysis work with collective groups, co-lead on Title IX policy coordination and support for the President in daily activities. Specific responsibilities include the following:

- Provide unbiased, unfiltered and objective advice to the President on issues that affect the University
- Work closely with the Vice Presidents on initiatives
- Assist with policy and personnel procedure issues
- Serve as liaison to University and community groups
- Coordinate special projects and initiatives
- Assist the President in outreach and fundraising initiatives as appropriate
- Serve on state Council on Postsecondary Education Committees as liaison for University
- Represent (or accompany) the President at events
- Perform day-to-day supervisory leadership role for specified direct reports, WKMS radio station and Institutional Effectiveness effective December 2016
- Serve as member of the President's Council and attends various staff meetings

I retain my tenure and status as a Professor of Mathematics and Statistics within this role.

Supervisor Role – Branding, Marketing and Communication

December 2014-September 2015

In this role, I worked with the Assistant Vice President of Branding, Marketing and Communication and her staff on logistical aspects to increase the focus of the communication of our University through the mediums of print, web, video and social media from December 7, 2014 through June 8, 2015. After June 8, 2015, I served as the supervisor until a Vice President for Marketing and Outreach was in place. Significant results were accomplished with the team in place.

Katherine Renee Fister

- Multiple documents were submitted as outreach to legislators and to peer institutions to highlight the rigor and excellence of academic programs, diversity and community involvement.
- Within the transition period after June 2015, the opportunities to work with this area's personnel in a day-to-day manner were provided. This involved budget allocation, working directly with five directors and coordinating a revised University message. We worked effectively to highlight this Murray State message with production/printing documentation discussions, print media, social media, website constructions and alumni video pieces.
- An improved email newsletter was developed by the team with university feedback and the newsletter was implemented in July 2015.
- A revised Brand message and advertising plan was developed in a collaborative fashion with Academic Affairs, Student Affairs, Alumni Affairs and Branding, Marketing and Communication to tell the story of Murray State in this transition period.
- The University magazine was successfully completed within a shortened time frame with the collective effort of the team.
- Since the communications director position was vacant, I served as the University media contact with a team of individuals to collectively develop appropriate messaging as situations arose.

Murray State University

Professor of Mathematics and Statistics

July 2007- present

Director/Principal Investigator of BioMaPS

September 2005-December 2014

Jesse D. Jones Endowed Professor

March 2013- June 2015

Associate Professor of Mathematics and Statistics

July 2002 – June 2007

Assistant Professor of Mathematics and Statistics

August 1996 - June 2002

Professor Role and Jesse D. Jones Endowed Professor

- Taught 9-12 credit hours of mathematics and statistics courses per term
- Involved students in research opportunities through funding initiatives
- Published 27 peer-reviewed articles and 8 expository articles
- Organized over 40 symposia at regional, national, and international conferences
- Presented over 100 research talks (45 invited or plenary presentations)
- Involved with 30 research grants and served as principal investigator (PI) or co-PI for 21 of them totaling \$1.6 million
- Performed duties for departmental tenure and promotion committees annually and served as chair of each
- Served as departmental graduate coordinator (8 year term) and introduced a graduate orientation program to equip students with tools to succeed in the classroom, revamped our graduate degree programs to be more inclusive of other complementary majors, introduced graduate teaching assistant critiques performed by faculty, and aided in the development of courses to encompass the needs of graduate students internal and external to our department.

Katherine Renee Fister

- Served in roles for college (chair) and university promotion committees, developed career seminar series, served on multiple search committees
- The Jesse D. Jones Endowed Professor is a rotating position (one of four) selected from professors within the Jones College of Science, Engineering and Technology. This position is specified for a teaching faculty member with a dedicated research program to enhance a professor's current program with student involvement.

Director/Principal Investigator of BioMaPS (Biology and Mathematics in Population Studies – NSF funded)

- Organized and lead a group of between seven and nine faculty members and four to eight students from September 2005 through December 2014.
- Provided research opportunities for students at the intersection of mathematics and biology while incorporating other departments at the University, nationally and internationally through a carefully designed speaker series.
- Directed assessment and coordinated personnel hiring processes associated with the grant's needs
- Facilitated the distribution of funds for the separate budgets totally nearly \$850,000
- Co-organized seminars and trainings for the participants and aided in yearly conferences for regional universities
- Allocated budgetary expenditures, filed all necessary University and National Science Foundation reports, hired the necessary personnel and coordinated with University leaders for fundraising initiatives

Pellissippi State Technological Community College

Instructor

August 1993 – June 1996

- Taught one introductory statistics courses each term
- Advised students in continuing their degree at a four year institution
- Provided tutoring for students in their testing center on a monthly basis

University of Tennessee, Knoxville

Graduate Teaching and Research Assistant

August 1990 – June 1996

- Taught recitation courses under a lead professor for the first year, composed and graded all work
- Taught one course per term after first year including Mathematics for Elementary School teachers, statistics, algebra, and calculus
- Served as the graduate research assistant for a National Science Foundation grant for all six years for an undergraduate research program

Significant Leadership Positions

Katherine Renee Fister

- Murray State Faculty Regent to the Board of Regents (BOR), April 2013 – September 2014.
 - Represent the faculty on the board and serves as one of the 11 regents
 - Communicate regularly with faculty, staff, students, administrators, and the president about issues
 - Serve on BOR Finance, Academic Affairs, and Regional Services Committees and Faculty Senate Executive Committees
 - Provide data driven information to the BOR for university issues, including faculty and staff initiatives
 - Build relationships with administrators, faculty, staff, and students to enhance the benefits Murray State offers all.
- Society for Mathematical Biology Board, July 2008-July 2012 and appointed Treasurer August 2012-2015.

The board discussed policy changes, developed protocols for publication research contracts, and served to increase visibility of mathematical biology. The treasurer is responsible for a half million dollar budget with investments, membership, and disbursement items.
- Association for Women in Mathematics (AWM) Clerk, 2001-2003.

The role involved scheduling meetings for the officers, performing secretarial duties at annual meetings, and writing documents for the president.

Teaching and Learning

Learning connected to the passion of teaching create synergistic opportunities for students, faculty and staff to develop pathways for successful ventures. I firmly believe in the adage that people do not care how much you know until they know how much you care. Information provided highlights the connectivity of teaching and learning in my career.

Opportunities

1. Principal Research advisor and mentor of eight undergraduate students and two graduate students and on optimal control treatment and secondary advisor for another ten students, Summer 1998-2014 (Principal students: Wyatt Alverson, Thalya Burden, Jon Ernstberger, Jennifer Donnelly, Brandon Hale, Todd Neal, Michael Cooper, Molly Williams, Craig Collins (graduate student) and Bryce Norris (graduate student))
2. Whitney Scholars lead mathematics professor for students from the Lincoln Foundation for two week program to give these underrepresented minority students a view of college life, Murray State University, June 2016 and June 2017.
3. Adventure: Life and Its Experiences Seminar organizer, June 2013- December 2014. (Speakers discuss their experiences related to their successes and challenges for students, faculty and staff. Speakers: Dr. Sonya Baker, Dr. Tim Miller, Dr. Jesse Jones, Dr. Constantine Curriss, Holly Bloodworth, Dick Weaver, Dr. Jerry Sue Thornton)
4. Mentoring

Katherine Renee Fister

- a. School-to-work sponsor for 8th grader at Calloway Middle, Fall 1997 and 1998; High School Job Shadowing Program, Dresden High School, Spring 2000; Murray High School mentor, 2007 and 2008 with research in dietetics.
 - b. Association for Women in Mathematics (AWM) Workshops for postdocs, 1999, 2001, 2002, 2004, 2005, 2006; AWM Mentor Net Program, mentor for two undergraduate women, 2002.
 - c. Howard Hughes Medical Institute (HHMI) Teacher Bridge/Mentor Program with a local high school math teacher to develop inquiry-based skills and technical concepts, 2001.
5. Recruiting Efforts involving meeting with students, scholarship workshops, college fairs, science and technology field days through Roads Scholar at Community High School, Marion, Illinois, 1996-1998, Marshall County High School, 1998-2007 (Three or four trips per year), Murray High School, HHMI Teacher Bridge Program for partnerships with college and high school students, 2008, Breckinridge County Racer Round-up Team (Fall 2013- present), Presentation at Breckinridge High School on “Can Math Cure Cancer?” in Fall 2015.
6. Residential College Involvement (Faculty, staff and all students are connected to a residential college to positively impact retention of students.)
- a. Richmond College, 1996-Spring 2009
The activities included Freshman Move-In Day, 1996-2009; interviewing student candidates for their Residential College Leadership, 1997-1999; speaking for their Honor Society Induction, 1998, tutoring biweekly in mathematics, 2000-2001, 2004-2005, consulting with their Orientation Team leaders in Fall 1999, and serving as the chair of the Advisory Board for the College Head, 1997-2000.
Awards received were the Faculty/Staff member of the month (March 1997), Order of Arthur Faculty Fellow for outstanding service (May 1998), and Outstanding Female Faculty Member for 2001, 2003, 2004, and 2007.
 - b. Hester College, Fall 2009- present.
The activities included orientation of the First Year Leaders and the Residential College Leaders (2009, 2012), Student Move-In and Cook-out (2009-present), Brainstorming session organizer for faculty, staff and students (Spring 2010), Resident Director faculty speaker (Spring 2010), mathematical tutoring monthly (2010-2011, 2013), Hester Homecoming events (2009-present), Academic Team volunteer (2014), organizer of food for finals study sessions (2012-2013), and Winslow meals (2010-present).
Awards received were the Outstanding Faculty Member in 2010 and 2012.
7. Thesis committee member for Western Kentucky University Master’s Thesis, Optimal control of Wound Healing, Donna Daulton, 2012-2013 and Optimal control of Wound Healing for a Partial Differential Equation Model, Stephen Guffey, 2013-2015.
8. Presidential representative to AASCU Emerging Paradigms for Public Higher Education Symposium, Washington, DC, February 22-23, 2017.

Service to the Profession

Significant Recent Grants

1. NSF RUI Grant, co-pi with Lisette dePillis and W. Gu from Harvey Mudd College, Mathematical Modeling of the Chemotherapy, Immunotherapy, and Vaccine Therapy of Cancer, August 2004- August 2007, \$328,000.
 2. NSF RUI-UBM Grant, PI with seven faculty members in Mathematics and Biology, Biology and Mathematics in Population Studies (BioMaPS), September 2005- August 2010, \$594,000.
 3. NSF RUI, Collaborative Research: Optimal Control Studies for Cholera Outbreaks, August 2008-July 2011, \$200,000.
 4. NSF RUI-UBM Grant, PI, co-PIs: Terry Derting, Howard Whiteman, Emily Croteau, Kate He; senior personnel: Maeve McCarthy, Christopher Mecklin, Claire Fuller, and Donald Adongo , Biology and Mathematics in Population Studies (BioMaPS) II, December 2010 - December 2014, \$240,000.
 5. Byers, Dina (Co-PI/Co-PD), Manley, Dana (Co-PI/Co-PD), Fister, Renee (Co-PI/Co-PD), "Health in a Box", Sponsored by Regional Outreach, Awarding Organization is Murray State University, November 2013 - July 2014, \$19,000.
 6. Fister, R., MAA Preparation for Industrial Careers grant, June 2014-August 2015,(Developed partnerships with local industry with real project completion for the benefit of the students and industry, July 2014 – August 2015, \$6500.
 7. Fister, R. and G. Winchester, LEAP into STEM, H.B. Fuller grant, September 11, 2014-December 2016, \$15,000.
- (Complete listing of grants received is available upon request.)

Significant Publications

* signifies work with an undergraduate student and ** with graduate student

1. K. R. Fister and J. C. Panetta, Cell-Cycle-Specific Chemotherapy and Optimal Control, *SIAM Journal on Applied Mathematics*, Vol. 60, No. 3, pg. 1059-1072, March 10, 2000.
2. T. Burden*, J. Ernstberger*, and K. R. Fister, Optimal Control Applied to Immunotherapy, *Discrete and Continuous Dynamical Systems, Series B*, Volume 4, No. 1, pg. 135-146, February 2004.
3. K. R. Fister and S. Lenhart, Optimal Harvesting in an Age-Structured Predator-Prey System, *Applied Mathematics and Optimization*, Vol. 54, pages 1-15, DOI:10.1007/s00245-005-0847-9, 2006.
4. L. G. dePillis, W. Gu, K. R. Fister, T. Head*, K. Maples*, A. Murugan*, T. Neal*, K. Yoshida*, Chemotherapy for tumors: An analysis of the dynamics and a study of quadratic and linear optimal controls, *Mathematical Biosciences*, Vol. 209, pages 292-315, 2007.
5. L. G. dePillis, K. R. Fister, W.Gu, C. Collins*, M. Daub*, J. Moore*, and B. Preskill*, Mathematical Model Creation for Cancer Chemo-Immunotherapy, *Computational and Mathematical Methods in Medicine*, iFirst Article, Vol. 10, No. 3, September 2009, pages 165-184, DOI 10.1080/17485700802216301.

6. C. Collins**, K.R. Fister, B. Key**, and M. Williams*, Blasting Neuroblastoma Using Optimal Control of Chemotherapy, *Mathematical Biosciences and Engineering*, Vol 6, No. 3, July 2009, pages 451-467, DOI:10.3934/mbe.2009.6.451.
7. R. Miller Neilan, E. Schaefer, H. Gaff, K.R. Fister, and S. Lenhart, Modeling optimal intervention strategies for cholera, *Bulletin of Mathematical Biology*, Vol. 72, Number 8, 2004-2018, November 2010.
8. A. Alexanderian, M. Gobbert, K. R. Fister, H. Gaff, S. Lenhart, and E. Schaefer, An age-structured model for the spread of epidemic cholera: analysis and simulation, *Nonlinear Analysis: Real World Applications*, Volume 12, Issue 6, pg. 3483-3498, 2011.
9. K. R. Fister, M.L. McCarthy, and S. Oppenheimer, Optimal control of insects through sterile insect release and habitat modification, *Mathematical Biosciences*, published online June 3, 2013, <http://dx.doi.org/10.1016/j.mbs.2013.05.008>, Vol. 244:2, pg. 201-212, August 2013.
10. D. Adongo, K.R. Fister, H. Gaff, and D. Hartley, Optimal Control applied to Rift Valley Fever, published online, January 4, 2013 in *Natural Resource Modeling*, DOI: 10.1111/nrm.12006.
11. K. R. Fister, H. Gaff, S. Lenhart, G. Buford*, and B. Norris**, Investigating Endemic Cholera Using an SIR Model with Age Class Structure and Optimal Control, *Involve, a Journal of Mathematics* 9-1 (2016), 83--100. DOI 10.2140/involve.2016.9.83

(Complete list is available. It is noted that publications have resulted in over 750 citations.)

Invited Presentations (Sample)

1. Invited speaker for Mathematical Association of America (MAA), San Diego, CA, Undergraduate Research at a Master's Degree Granting Institution, January 5-8, 2002.
2. Invited speaker, International Cancer Modeling Workshop, Vanderbilt University, May 4, 2002.
3. Invited speaker, American Mathematical Society Southeastern Section, Optimal Control Applied to Cell-Kill Strategies, University of North Carolina, Charlotte, NC, October 23-24, 2003.
4. Invited speaker, MAA Annual Meeting, Pittsburgh, Pennsylvania, Optimal Control Scenarios in Cancer Dynamics, August 3-6, 2010.
5. Invited presenter for joint MAA/Society for Mathematical Biology (SMB) Annual Meeting for Mathematical Biology two day workshop, San Jose, CA July 31-August 1, 2007.
6. Plenary speaker at SEMO Undergraduate Research Day, Cape Girardeau, MO, November 3, 2007.
7. Invited presenter, Diversity Workshop, Harvey Mudd College, February 21, 2008.

Katherine Renee Fister

8. Association of Colleges and University Biology Educators, invited speaker with Terry Derting (Biology), Assessing Undergraduate Research, Hopkinsville, KY, October 17, 2008.
9. Plenary Speaker, NIMBioS, Optimal Control and Optimization for Biologists, Title: Optimal Control and Cancer Dynamics, December 15-17, 2009.
10. AMS Regional Meeting, invited speaker, Mathematical Models in Biology and Medicine session, Age Structure Investigation of Cholera with Optimal Control, November 6, 2010, Richmond, VA.
11. Colloquium speaker, Western Kentucky University, Can math cure cancer?, March 31, 2011.
12. Invited minisymposium speaker for joint meeting of European Society of Mathematical and Theoretical Biology and SMB, Optimal Control Scenarios in Cancer Treatment Strategies, June 27, 2011- July 2, 2011, Krakow, Poland.
13. Invited Plenary Speaker for NSF Advance grant at Skidmore College, Saratoga Springs, NY, Can Math cure Cancer?, April 12, 2012.
14. Fister, R., Invited plenary speaker, AMS Trends in Undergraduate Research for the Mathematical Sciences (TURMS), A Perspective on Undergraduate Research in Biomathematics, Chicago, October 2012.
15. Plenary speaker, 2014 Hendrix-Rhodes-Sewanee Mathematics and Computer Science Symposium, Can Math Cure Diseases?, April 4, 2014, Memphis, TN.
16. Convocation Speaker for Kentucky Governor's Scholar, Cancer, Hope and Leadership, Murray State University, Murray, KY, July 6, 2016.
17. Keynote Speaker for Whitney M. Young Annual Senior Banquet, Louisville, KY, May 20, 2017.
18. Invited speaker and presenter for Kentucky Governor's Scholar Alumni Celebration, Murray State University, July 2017.

Professional Review

1. Reviewer of seven mathematical texts for publishers
2. Peer reviewer for 23 different Mathematical and Biological journals with excellent impact factors for a total of over 50 journal reviews.
3. NSF panel review member in 2001, 2006 and 2008 for different mathematical disciplines.
4. Technical reviewer for program reviews for Mathematics departments for accreditation.

Outreach to Community

1. Faculty Institute Reforming Science Teaching (FIRST) Project minisymposium leader, Hancock Biological Station, Murray State, November 21-22, 1998; FIRST II team member, national workshops, 2001-2004; Evaluator of postdoctoral teaching through normalized rubric assessment for NSF FIRST IV grant from Summer 2012 -Fall 2013, 2014.
2. Selected test developer for the American Dental Association exam for 2001-2006.
3. Invited lecturer at Harvey Mudd, March 2-7, 2003. Taught two undergraduate classes on optimal control and gave a research talk to the faculty.

Katherine Renee Fister

4. SIAM Moody Mathematics Challenge Reviewer, March 2013, 2014.
5. Southwest Elementary Site Based Council Elected Member, June 2009-May 2012.
6. Developer and organizer of Math and Science Treasures Club (MAST), August 2010-present (Provide outreach to Southwest Elementary School)
7. Co-organizer of Math Mentoring Program at Southwest and North Elementary Schools in which college students work with K-5 students to improve math scores, August 2010- present.
8. Society for Mathematical Biology elected Board of Director, July 2008-July 2012.
9. Society for Industrial and Applied Mathematics (SIAM) representative to Joint Committee on Women, February 2010-January 2013.
10. Rotary involvement and community service, December 2015 – present.
11. Women’s Inspire, Influence and Integrity Network – Serve as mentor for community program for professional women – January 2018 – present.

Service to Institution

(This is not meant to be exhaustive rather informative for cohesiveness purposes.)

Departmental Service

1. Scholarship Committee, 1996-1998.
2. Curriculum Committee, 1998-1999.
3. Search Committee, 1999-2000, 2001-2002, 2004-2005, 2012.
4. Graduate Committee, 2000-2013; Graduate Coordinator, May 2003-May 2010, May 2012- July 2013.
5. Co-sponsor of Euclidean Mathematics Club, 1997-2001.
6. Co-organizer for Mathematics Colloquia, 1999-2001.
7. Co-editor of *Dimensions*, the Mathematics Newsletter, 1999-2003 – Took the initiative to reinvigorate the newsletter to develop partnerships with community and alumni.

Collegiate and University Service

1. Sigma Xi (Judge for poster competition, 1999, 2001, 2002-2004, 2006, 2009 and Science Education Committee member, 2000-2004; Chair 2002-2004).
2. College Promotion Committee, 2008-2010, 2012, 2014 (Chair).
3. University Admission Appeals Committee, 1998-2005.
4. University Promotion and Leave Committee, Spring 2010- Spring 2013.
5. SACS Accreditation Committee Reviewer and Writer, 2009, 2011-2013.
6. Search Committees: Provost/Vice President for Academic Affairs (VPAA), November 2012 - May 2013,; Government Relations Director, 2014; Human Resource Director, 2015; Vice President for Marketing and Outreach, 2015; Provost/VPAA, 2016-2017; Institutional Effectiveness Senior Data Analyst, 2017 Institutional Analyst Analysts, 2017.
7. Faculty Senate ex-officio member of Finance Committee, Faculty Handbook, and Executive Committee as Murray State University Faculty Regent, 2013-2014.
8. Title IX ad-hoc committee member to review practices and procedures across the University, April 2015- May 2016.

Katherine Renee Fister

9. Kentucky Council on Postsecondary Education Strategic Initiatives Committee, 2015-2016 – This work required monthly discussions and work in Frankfort regarding the Strategic Agenda for the Commonwealth's higher education initiatives.

Courses

Courses taught have been an eclectic mix of introductory mathematics and statistics courses, applied undergraduate and graduate mathematics courses. This has provided an understanding of the student who has developmental needs to the innovative undergraduate to the precocious graduate students. The courses involving my expertise centered on calculus, differential equations, and optimal control.

Memberships

I have been involved in SIAM, AWM, MAA, SMB and American Association for Cancer Research through my service, time and talents. Dates of involvement can be provided upon request.

Honors and Awards

- Murray State University Student Support Services Fabulous Faculty Award, 1997.
- Outstanding National Collegiate Teacher, 2002.
- Murray State University Presidential Research Scholar, 2002.
- Richmond College female faculty member of the year, 2001, 2003, 2004, 2007.
- Murray State University College of Science, Engineering, and Technology Regent's Teacher, 2004.
- Ohio Valley Conference Outstanding Female Professor from Murray State University, 2007.
- Murray State University Distinguished Mentor Award, May 2009.
- Murray State University Neil Weber Award for Excellence in the College of Science Engineering and Technology, 2010.
- Kentucky Academy of Sciences Outstanding University Teacher, 2010.
- Murray State University Outstanding Researcher Award for College of Science, Engineering, and Technology, 2013.
- Murray State University Virginia Slimmer Outstanding Faculty Member, 2013.
- Jesse D. Jones Endowed Professor of Mathematics and Statistics, March 2013- June 2015.
- Leadership Murray selected participant, September 2015- June 2016.
- Transylvania University Distinguished Achievement Award for alumni, Spring 2016.