Jerome Goddard II

Department of Mathematics Auburn University Montgomery Montgomery, AL 36124-4023 Phone: (334) 244-3023

Email: jgoddard@aum.edu

Website: http://www.jeromegoddard2.com

Education

 Ph.D. in Mathematical Sciences Mississippi State University Concentration: Differential Equations (Nonlinear Boundary Value Problems) Major Advisor: Prof. Ratnasingham Shivaji Dissertation: "Classes of reaction diffusion equations with nonlinear boundary conditions" 	August 2011
Master of Science in Mathematics Mississippi College • Graduated Summa Cum Laude • Major Advisor: Prof. John Travis • Thesis: "Mathematical estimation of potential risk of Lyme disease in Mississippi"	May 2006
Bachelor of Science in Mathematics Mississippi College • Graduated Summa Cum Laude • Minor: Computer Science Academic Positions	May 2004
Professor of Mathematics Auburn University Montgomery	2021 - present
Distinguished Research Associate Professor of Mathematics Auburn University Montgomery	2019 - 2022
Assistant to the Chair (Mathematics) Auburn University Montgomery	2018 - present
Associate Professor of Mathematics (with Tenure) Auburn University Montgomery	2015 - 2019
Director of Mathematical Studies Auburn University Montgomery	2015 - 2018
Assistant Professor of Mathematics Auburn University Montgomery	2011 - 2015

Research Interests

- Partial differential equations
- Reaction diffusion equations
- Nonlinear boundary value problems with nonlinear boundary conditions
- Mathematical biology-especially population modeling

Awards and Honors

• Distinguished Research Associate Professor Award (2019 – 2022, \$3,000), AUM	2019
• 2017 Outstanding Faculty Award, Dept. of Math & Comp. Sci., AUM	2018
• Excellence in Service to Students Award, the National Society of Leadership and	2014
Success (Sigma Alpha Pi), AUM	
• School of Sciences Junior Faculty award (2012 – 2013, \$1,000), AUM	2013
• 2011 Graduate Doctoral Student Research award, MSU	2011
• Graduate student travel award, for travel to 2011 AMS JMM (\$1,000), MSU	2010
• Outstanding Graduate Teaching award, Dept. of Mathematics and Statistics, MSU	2010
• Nominated for Donald Zacharias Teaching Assistant of the Year award, MSU	2010
• Graduate student travel award, for travel to 2010 AMS JMM (\$1,000), MSU	2009
• Outstanding Graduate Teaching award, Dept. of Mathematics and Statistics, MSU	2009
 Outstanding Graduate Student award, Dept. of Mathematics and Statistics, MSU 	2007
• Junior District Award of Merit, Andrew Jackson Council, Boy Scouts of America	2007
• Who's Who among American Colleges and Universities, Mississippi College	2004
Alpha Chi, Mississippi College	2004
• Secretary, Pi Mu Epsilon, Mississippi College	2004
• Burnside Mathematics Scholarship award (\$1,000), Mississippi College	2003
• Finalist, Persuasive Speaking Contest, <i>Hinds Community College</i>	2002
Mu Alpha Theta, <i>Hinds Community College</i>	2002
Phi Theta Kappa, Hinds Community College	2002
• Eagle Scout, Troop 99, Boy Scouts of America	1998

Research Publications

Authored Books:

1. Goddard's Physician's Guide to Arthropods of Medical Importance, Seventh Edition, CRC/Taylor & Francis Group, with Gail Moraru, Spring 2019.

> Note: Previous editions of this book are world-renowned and authored by Jerome Goddard (https://www.crcpress.com/Physicians-Guide-to-Arthropods-of-Medical-Importance-Sixth-Edition/Goddard/p/book/9781439850855). For this edition, Jerome Goddard has stepped down from the role of author, giving the authorship and responsibility of maintaining and updating this and future editions to Jerome Goddard II and Gail Moraru.

Journal Articles (Peer-Reviewed):

"Estimating populations of adult Ixodes scapularis in Mississippi using a sequential Bayesian algorithm," with Jerome Goddard, Journal of Medical Entomology, vol. 45, no. 3, 556-562(2008). http://dx.doi.org/10.1603/0022-2585(2008)45[556:EPOAIS]2.0.CO;2

- 3. "A double S-shaped bifurcation curve for a reaction-diffusion model with nonlinear boundary conditions," with Eun Kyoung Lee & R. Shivaji, **Boundary Value Problems**, vol. 2010, Article ID: 357542: 23 pages.
 - http://dx.doi.org/10.1155/2010/357542
- 4. "Diffusive logistic equation with non-linear boundary conditions," with Eun Kyoung Lee & R. Shivaji, **Journal of Mathematical Analysis and Applications,** vol. 375, no. 1, (2011): 365-370. http://dx.doi.org/10.1016/j.jmaa.2010.09.057
- 5. "Population models with diffusion, strong Allee effect, and nonlinear boundary conditions," with Eun Kyoung Lee & R. Shivaji, Nonlinear Analysis: Theory, Methods & Applications, vol. 74, no. 17, (2011): 6202-6208.

http://dx.doi.org/10.1016/j.na.2011.06.001

- 6. "Ecological systems, nonlinear boundary conditions, and Σ -shaped bifurcation curves," with Kathryn Ashley & Victoria Sincavage, Involve: A Journal of Mathematics, vol. 6, no. 4, (2013): 399-430. http://dx.doi.org/10.2140/involve.2013.6.399
- 7. "Existence results for classes of infinite semipositone problems," with Eun Kyoung Lee, Lakshmi Sankar, & R. Shivaji, Boundary Value Problems, vol. 2013, no. 97, 1-9. http://dx.doi.org/10.1186/1687-2770-2013-97
- 8. "Diffusive logistic equation with constant yield harvesting and negative density dependent emigration on the boundary," with R. Shivaji, Journal of Mathematical Analysis and Applications, vol. 414, no. 2 (2014), 561-573. http://dx.doi.org/10.1016/j.jmaa.2014.01.016
- 9. "Halo-shaped bifurcation curves in ecological systems," with R. Shivaji, Electronic Journal of **Differential Equations.** vol. 2014, no. 88 (2014), 1-27. http://ejde.math.txstate.edu/Volumes/2014/88/abstr.html
- 10. "Diffusion Rates and Dispersal Patterns of Starved Versus Recently Fed Bed Bugs (Cimex lectularius L.)," with Michael Caprio & Jerome Goddard, Insects, vol. 6, no. 4 (2015), 792-804. https://www.mdpi.com/2075-4450/6/4/792
- 11. "Biomedical researchers should declare their assumptions (research letter)," with Jerome Goddard, **Journal of the Mississippi Academy of Sciences**, vol. 60, no. 3 (2015). https://msacad.org/wp-content/uploads/2016/01/MAS-July-2015-Number-Vol-60-3a.pdf
- 12. "Stability and instability of positive solutions for classes of semilinear elliptic boundary value problems with nonlinear boundary conditions," with R. Shivaji, Royal Society of Edinburgh Proceedings A: Mathematics, vol. 147, no. 5 (2017). https://doi.org/10.1017/S0308210516000408
- 13. "Bifurcation curves for some singular and nonsingular problems with nonlinear boundary conditions," with Q. Morris, R. Shivaji, & B. Son, Electronic Journal of Differential Equations, vol. 2018, no. 26 (2018), 1-12.https://ejde.math.txstate.edu/Volumes/2018/26/abstr.html
- 14. "An exact bifurcation diagram for a reaction diffusion equation arising in population dynamics," with O. Morris, S. Robinson, & R. Shivaji, Boundary Value Problems, vol. 2018, no. 1, (2018), 170. https://doi.org/10.1186/s13661-018-1090-z
- 15. "A diffusive logistic equation with U-shaped density dependent dispersal on the boundary," with Q. Morris, C. Payne, & R. Shivaji, Topological Methods in Nonlinear Analysis, vol. 53, no. 1, (2019), 335-349.
 - https://projecteuclid.org/euclid.tmna/1547434818
- 16. "Effects of patch-matrix composition and individual movement response on population persistence at the patch-level," with J. Cronin & R. Shivaji, Bulletin of Mathematical Biology, vol. 81, no. 10, (2019), 3933-3975.
 - https://link.springer.com/article/10.1007/s11538-019-00634-9
- 17. "Modeling the effects of density dependent emigration, weak Allee effects, and matrix hostility on patch-level population persistence", with J. T. Cronin, N. Fonseka, R. Shivaji, & B. Son, Mathematical **Biosciences and Engineering**, vol. 17, no. 2, (2019), 1718-1742. https://www.aimspress.com/article/10.3934/mbe.2020090/fulltext.html

- 18. "On the effects of the exterior matrix hostility and a U-shaped density dependent dispersal on a diffusive logistic growth model," with N. Fonseka, Q. Morris, R. Shivaji, & B. Son, Discrete and Continuous **Dynamical Systems Series S**, vol. 13, no. 12, (2020), 3401-3415. http://www.aimsciences.org/article/doi/10.3934/dcdss.2020245
- 19. "Frequency of Occurrence and Population-Dynamic Consequences of Different Forms of Density-Dependent Emigration," with J. T. Cronin, R. Harmon, & R. Shivaji, The American Naturalist, 195:5, (2020), 851-867. https://doi.org/10.1086/708156
- 20. "Modeling the effects of trait-mediated dispersal on the coexistence of mutualists," with J. T. Cronin, A. Muthunayake, & R. Shivaji, Mathematical Biosciences and Engineering, vol. 17, no. 6, (2020), 7838-7861.

http://www.aimspress.com/article/10.3934/mbe.2020399

- 21. "A diffusive weak Allee effect model with U-shaped density dependent dispersal and hostile matrix effects," with N. Fonseka, R. Shivaji, & B. Son, Discrete and Continuous Dynamical Systems Series **B**, vol. 26, no. 10 (2021), 5509-5517. https://www.aimsciences.org/article/doi/10.3934/dcdsb.2020356
- 22. "Modeling effects of matrix heterogeneity on a single species," with N. Fonseka, A. Henderson, D. Nichols, & R. Shivaji, Mathematical Biosciences and Engineering, vol. 19, no. 12 (2022), 13675-13709.

http://www.aimspress.com/article/doi/10.3934/mbe.2022638.

- 23. "The diffusive Lotka-Volterra competition model in fragmented landscapes I: Coexistence," with A. Acharya, B. Bandyopadhyay, J. T. Cronin, A. Muthunayake, & R. Shiyaji, Nonlinear Analysis: Real World Application, vol. 70, (2023), 103775 https://www.sciencedirect.com/science/article/pii/S1468121822001584
- 24. "Ecological release and patch geometry can cause nonlinear density-area relationships," with J. T. Cronin & R. Shivaji, Journal of Theoretical Biology, vol. 557, no. 21, (2023), 111325. https://doi.org/10.1016/j.jtbi.2022.111325
- 25. "Predator-induced prey dispersal can cause hump-shaped density-area relationships in prey populations," with J. T. Cronin, A. Muthunayake, J. Quiroa, & R. Shivaji, submitted.
- 26. "On the effects of density-dependent dispersal on ecological models with logistic and Allee effect type growth terms," with A. Acharya, N. Fonseka, A. Henderson, & R. Shivaji, submitted.

Conference Proceedings (Peer-Reviewed):

- 27. "Relative risk of acquiring Black-legged ticks, *Ixodes scapularis*, in Central Mississippi," with Jerome Goddard, Midsouth Entomologist, Vol. 3 (2010): 97-100. http://www.midsouthentomologist.org.msstate.edu/Volume3/Vol3 2 html files/Vol3 2 004.html
- 28. "Population models with nonlinear boundary conditions," with Eun Kyoung Lee & R. Shivaji, Electronic Journal of Differential Equations, Conf. 19 (2010): 135-149. http://ejde.math.txstate.edu/conf-proc/19/g2/abstr.html
- 29. "A population model with nonlinear boundary conditions and constant yield harvesting," with R. Shivaji, Proceedings of Dynamic Systems and Applications, vol. 6 (2012): 150-157. http://www.dynamicpublishers.com/dynamic.htm

Technical Reports (Not Peer-Reviewed):

- 30. "Stability of Extending Films," with Olus, N. Boratav, Li Taebeom Kim, Jill Klentzman, Dias Kurmashev, Mauricio Osorio, & Gregory Richards. IMA Mathematical Modeling in Industry Workshop XII, (2008): 1-26.
 - http://citeseer.uark.edu:8080/citeseerx/viewdoc/summary;jsessionid=92C034DAB79E1D157051B2CC4BB906D9?doi=10.1.1.140.6689
- 31. "Proportion of Adult Lone Star ticks (Amblyomma americanum) questing in a tick population," with Jerome Goddard & Xueyan Wang, Journal of Mississippi Academy of Sciences, Vol. 54 No 3-4 (2009): 206-209.
 - https://pdfs.semanticscholar.org/0c94/404adbd6f08914a666e7ad0fd8c7a6150f3a.pdf#page=20

In Preparation:

- 32. "Analysis of steady states for classes of reaction-diffusion equations with U-shaped density dependent dispersal on the boundary," with J. Price & R. Shivaji, in preparation.
- 33. "Landscape level modeling of habitat fragmentation via reaction diffusion equations," with A. Barnett, D. Harrell, & R. Shivaji, in preparation.
- 34. "Modeling competition-mediated dispersal with the reaction diffusion framework," with E. Cosgrove, E. Lindsey, & R. Shivaji, in preparation.
- 35. "Movement behavior of Ischnodemus falicus (Say) (Hemiptera: Blissidae) in fragmented salt-marsh habitats," with R. R. Harman, R. Shivaji, and J. T. Cronin, in preparation.
- 36. "The diffusive Lotka-Volterra competition model in fragmented landscapes II: Competitive reversal," with A. Acharya, J. T. Cronin, & R. Shivaji, in preparation.
- 37. "When is competition better than having the whole patch to yourself?", with Z. Blume-Babcock, J. T. Cronin, S. Fields, J. Mills, & R. Shivaji, in preparation.
- 38. "Trait-mediated dispersal in two competing species," with J. T. Cronin, A. Krivchenia, & R. Shivaji, in preparation.
- 39. "Harvesting-mediated emigration can affect community structure in a competitive system," with J. T. Cronin, H. Abusammour, J. Garett, S. Humphries, R. Shivaji.
- 40. "Effects of trait-mediated dispersal on a weakly coupled competitive system," with A. Acharya, S. Bandyopadhyay, A. Muthunayake, & R. Shivaji.

Grants

External Funding:

- * Continuously funded by NSF since 2005 (4 collaborative grants): \$2,180,550 (Goddard's portion: \$464,462)
 - NSF Mathematical Biology/Population and Community Ecology Grant. "Collaborative April 2023 Research: Mathematical and experimental analysis of the interaction between competitors and a shared predator - from patches to landscapes" (DMS-2246725). Principle Investigator (Co-PIs: James T. Cronin, LSU and R. Shivaji, UNCG) Awarded: \$715,710 (Goddard's portion: \$155,710), 8/1/2023 – 7/31/2026 (expected)
 - NSF Mathematical Biology Grant. "Collaborative Research: Mathematical and Aug 2022 Experimental Analysis of Competitive and Predator-Prey Models: Conditional Dispersal from Patches to Landscapes" (DMS-2150946). Principle Investigator (Co-PIs: James T. Cronin, LSU and R. Shivaji, UNCG) Awarded: \$200,000 (Goddard's portion: \$50,000), 8/1/2022 - 7/31/2024 (expected)
 - NSF Mathematical Biology/Population and Community Ecology Grant. "Collaborative Aug 2019 Research: Mathematical and Experimental Analysis of Competitive Ecological Models: Patches, Landscapes, and Conditional Dispersal on the Boundary" (DMS-1853372). Principle Investigator (Co-PIs: James T. Cronin, LSU and R. Shivaji, UNCG) **Awarded:** \$670,000 (Goddard's portion: \$120,930), 8/1/2019 – 7/31/2023
 - NSF Mathematical Biology Grant. "Collaborative Research: Mathematical & Aug 2015 Experimental Analysis of Ecological Models: Patches, Landscapes, and Conditional Dispersal on the Boundary" (DMS-1516560). Principle Investigator (Co-PIs: James T. Cronin, LSU and R. Shivaji, UNCG) **Awarded: \$594,840 (Goddard's portion: \$137,822), 8/15/2015 – 7/31/2019**

Oct 2011

Ph.D. Student Mentorship

Awarded: \$1.100

Awarded: \$500

For the following students, I <u>co-directed their dissertation</u> with Prof. R. Shivaji at UNCG, as a significant portion of their dissertations derived from my three NSF grants on habitat fragmentation and <u>served as a member of their Ph.D.</u> Committee:

• AUM Lecturer Program Grant to bring Prof. R. Shivaji to campus to present a lecture,

Undergraduate Student Mentorship

NSF UGR in Differential Equations, Auburn University Montgomery 2022 - 2023 Students: Hamza Abusammour ('23), Jacob Garrett ('24), & Savannah Humphries ('24) Title: *Harvesting-mediated emigration can affect community structure in a competitive*

1. Presented an invited talk in the special session "Spatial ecology applications using reaction diffusion models" at the 2023 Joint Mathematics Meetings in Boston, MA Jan 2023

•	NSF UGR in Differential Equations, Auburn University Montgomery Students: Zane Blume-Babcock ('21), Sydney Fields ('21), & Dakota Mills ('20) Title: Modeling trait-mediated dispersal among two competitors	2020 - 2021
•	NSF UGR in Differential Equations, Auburn University Montgomery Students: Kayla Luther ('20) & Joanna Sumner ('20) Title: Modeling constant yield harvesting with density dependent dispersal	2018 - 2019
•	NSF UGR in Differential Equations, Auburn University Montgomery Students: Emily Cosgrove ('18) & Eddie Lindsey ('18)	2016 - 2018
	 Title: Modeling interaction-mediated dispersal Presented a contributed talk at the 2017 Southeastern Section Meeting of the MAA, Clayton State University, Macon, GA 	Mar 2017
	 Presented a contributed talk at the 2017 This is Research, Auburn University, Auburn, AL 	Apr 2017
	3. Presented a contributed talk at the 2017 Auburn Montgomery Undergraduate Research Symposium, Montgomery, AL	Apr 2017
	 Presented a contributed talk at the 2017 NimBios Undergraduate Research Conference, University of Tennessee, Knoxville, TN 	Nov 2017
	 Presented a contributed talk at the 2018 Southeastern Section Meeting of the MAA, Clemson University, Clemson, SC 	Mar 2018
	6. Presented a contributed talk at the 2018 This is Research, Auburn University, Auburn, AL	Apr 2018
	7. Presented a contributed talk at the 2018 Auburn Montgomery Undergraduate Research Symposium, Montgomery, AL	Apr 2018
	8. Presented a contributed talk at the 2018 Ecological Society of America Meeting, New Orleans, LA	Aug 2018
•	NSF UGR in Differential Equations, Auburn University Montgomery Students: Alyssa Barnett ('16) & Dexter Harrell ('16)	2015 - 2016
	Title: Landscape level modeling of habitat fragmentation via reaction diffusion equations	i
	9. Presented a contributed talk at the 2016 Southeastern Section Meeting of the MAA, University of Alabama Birmingham, Birmingham, AL	Mar 2016
	10. Presented a contributed talk at the 2016 This is Research, Auburn University, Auburn, AL	Apr 2016
	11. Presented a contributed talk at the 2016 Auburn Montgomery Undergraduate Research Symposium, Montgomery, AL	Apr 2016
•	UGR in Differential Equations, Auburn University Montgomery Students: Jordan Berry ('14) & Jordan Price ('16)	2014 - 2015
	Title: Ecological systems with U-shaped density dependent dispersal 12. Presented a contributed talk at the 10 th University of North Carolina Greensboro President Mathematics & Statistics Conference, Greensboro, NC	Nov 2014
	Regional Mathematics & Statistics Conference, Greensboro, NC 13. Presented a contributed talk at the 2015 Southeastern Section Meeting of the MAA, University of North Carolina Wilmington, Wilmington, NC	Mar 2015
	14. Presented a contributed talk at the 2015 This is Research, Auburn University, Auburn, AL	Apr 2015
	15. Presented a contributed talk at the 2015 Auburn Montgomery Undergraduate Research Symposium, Montgomery, AL	Apr 2015

June 2016

Mar 2016

Development Lecture Series, University of North Carolina Greensboro

8. Commencement address at Prattville High School Mu Alpha Theta Induction,

7. Colloquium talk at College of Arts & Sciences Mini-College, AUM

Prattville, AL

9. Colloquium talk at <i>University of Tennessee Knoxville</i> , Knoxville, TN	Mar 2016
• • •	Oct 2015
1	Jul 2015
	Mar 2015
	Sept 2014
	Nov 2013
	Mar 2012
	Feb 2012
•	Oct 2011
± * *	Oct 2011
	Feb 2009
Invited Special Session Presentations:	
20. Invited to present a talk in the special session, "Spatial Ecology Applications using Reaction Diffusion Equations," at the 2023 Joint Mathematics Meetings, Boston, MA	Jan 2023
	Jan 2023
22. Invited to present a talk in the special session, "Reaction Diffusion Models with	Jan 2022
Applications in Spatial Ecology," at the 2022 Joint Mathematics Meetings, Virtual	NI 2021
1 /	Nov 2021
and Ecological Systems" at the 2021 Fall Southeastern Sectional Meeting of the	
American Mathematical Society, University of Southern Alabama, Mobile, AL	Sep 2021
24. Invited to present a talk in the special session, "PDE, Dynamical Systems, and Applications" at the <i>44th SIAM Southeastern Atlantic Section (SIAM SEAS)</i>	sep 2021
Conference, Auburn University, Auburn, AL	
	Mar 2019
at the 2019 Spring Southeastern Sectional Meeting of the American Mathematical	.viai 2017
Society, Auburn, AL	
26. Invited to present a talk in the special session, "Nonlinear Reaction-Diffusion Equations N	Mar 2019
and their Applications" at the 2019 Spring Southeastern Sectional Meeting of the	.,101 2019
American Mathematical Society, Auburn, AL	
· · · · · · · · · · · · · · · · · · ·	June 2018
Methods Conference, Northern Arizona University, Flagstaff, AZ	
28. Invited to present a talk in the special session, "Nonlinear reaction diffusion equations and their applications" at the 2018 Fall Eastern Sectional Meeting of the AMS,	Apr 2018
Boston University, Boston, MA	
	Nov 2016
at the 2016 Fall Southeastern Section Meeting of the AMS, NC State University,	.107 2010
Raleigh, NC	
	Jul 2016
Evolution Equations and Applications, Auburn University, Auburn, AL	
· · · · · · · · · · · · · · · · · · ·	Jul 2016
theory and application of reaction diffusion equations" & "Dissipative systems and	
applications" at the 2016 AIMS 11th International Conference on Dynamical	
Systems and Differential Equations, Orlando, FL	
32. Chaired a session and presented an invited talk in the special session, "Advances in	Jan 2016
theory & application of reaction diffusion equations," at the 2016 Joint Mathematics	
theory & application of reaction diffusion equations," at the 2016 Joint Mathematics Meetings, Seattle, WA	Jan 2015

application of reaction diffusion equations," at the 2015 Joint Mathematics Meetings,	
San Antonio, TX	
34. Chaired a session and presented invited talks in the special sessions, "Reaction diffusion equations and applications" & "Quasilinear elliptic and parabolic problems and their applications" at the 2014 AIMS 10 th International Conference on Dynamical Systems and Differential Equations, Madrid, Spain	Jul 2014
35. Invited to present a talk in the special session, "Nonlinear elliptic PDE and applications," <i>SIAM Southeastern Atlantic Sectional Meeting</i> , Florida Tech University, Melbourne, FL	Mar 2014
36. Chaired a session and presented an invited talk in the special session, "Reaction diffusion equations and applications" at the <i>2014 Joint Mathematics Meetings</i> , Baltimore, MD	Jan 2014
37. Invited to present a talk in the special session, "Nonlinear elliptic and wave equations and applications," <i>AMS Fall Eastern Sectional Meeting</i> , Temple University, Philadelphia, PA	Oct 2013
38. Presented an invited talk in the special session, "Mathematics of planet earth" at the 2013 Southeastern Section Meeting of the MAA, Winthrop University, Rock Hill, SC	Mar 2013
39. Chaired a session and presented an invited talk in the special session, "Understanding planet earth via reaction diffusion equations" at the 2013 Joint Mathematics Meetings, San Diego, CA	Jan 2013
40. Chaired a session and presented an invited talk in the special session, "Reaction diffusion equations and applications" at the 2012 AIMS 9 th International Conference on Dynamical Systems and Differential Equations, Orlando, FL	Jul 2012
41. Invited to present a talk & chaired a session at the 2012 Variational and Topological Methods Conference, Northern Arizona University, Flagstaff, AZ	June 2012
42. Chaired a session and presented an invited talk in the special session, "Reaction diffusion equations and applications" at the <i>2012 Joint Mathematics Meetings</i> , Boston, MA	Jan 2012
43. Invited to present a talk in the special session, "Workshop on reaction diffusion equations and application," at the <i>Sixth International Conference on Dynamic Systems and Applications</i> , Atlanta, GA	May 2011
44. Invited to present a talk in the special session, "Analysis of reaction-diffusion models," at the <i>2011 Joint Mathematics Meetings</i> , New Orleans, LA	Jan 2011
Contributed Presentations:	
45. 2021 UNC Greensboro Partial Differential Equations Conference, University of North Carolina Greensboro, Greensboro, NC	July 2021
46. 2018 Annual Meeting of the Ecological Society of America, New Orleans, LA 47. 2017 AACTM (Association of Alabama College Teachers of Mathematics), Samford University, Birmingham, AL	Aug 2018 Feb 2017
48. 2017 Joint Mathematics Meetings, Atlanta, GA 49. AMS Fall Eastern Sectional Meeting, University of Alabama Huntsville, Huntsville, AL	Jan 2017 Mar 2015
50. Mathematical Association of America Southeastern 2015 Section Meeting, University of North Carolina Wilmington, Wilmington, NC	Mar 2015
51. 2015 AACTM (Association of Alabama College Teachers of Mathematics), University of Alabama, Tuscaloosa, AL	Feb 2015
52. SEARCDE-2014 (Southeastern-Atlantic Regional Conference on Differential Equations), University of Memphis, Memphis, TN	Oct 2014
53. Mathematical Association of America Southeastern 2014 Section Meeting, Tennessee Tech University, Cookeville, TN	Mar 2014

54. 2014 AACTM (Association of Alabama College Teachers of Mathematics), Auburn University, Auburn, AL	Feb 2014
55. SEARCDE-2013 (Southeastern-Atlantic Regional Conference on Differential Equations), University of Tennessee, Knoxville, TN	Sept 2013
	A mm 2012
56. 2013 Auburn Research Week, Auburn University, Auburn, AL	Apr 2013
57. First International Conference on Dynamics of Differential Equations, Georgia Tech,	Mar 2013
Atlanta, GA	E-1-2012
58. 2013 AACTM (Association of Alabama College Teachers of Mathematics),	Feb 2013
Birmingham Southern College, Birmingham, AL	0 . 2012
59. SEARCDE-2012 (Southeastern-Atlantic Regional Conference on Differential	Oct 2012
Equations), Wake Forest University, Winston-Salem, NC	16 2012
60. Mathematical Association of America Southeastern 2012 Section Meeting,	Mar 2012
Clayton State University, Morrow, GA	0 2011
61. SEARCDE-2011 (Southeastern-Atlantic Regional Conference on Differential	Oct 2011
Equations), Georgia Southern University, Statesboro, GA	
62. Chaired a contributed session and presented a talk at the 2011 Differential Equations	May 2011
Weekend Conference, Mississippi State University	
63. Mathematical Association of America LA/MS 2011 Section Meeting, Oxford, MS,	Mar 2011
64. SEARCDE-2010 (Southeastern-Atlantic Regional Conference on Differential	Oct 2010
Equations), Virginia Tech, Blacksburg, VA	
65. 2010 Joint Mathematics Meetings, San Francisco, CA	Jan 2010
66. 2009 Differential Equations Weekend, University of Memphis, Memphis, TN	Nov 2009
67. SEARCDE-2009 (Southeastern-Atlantic Regional Conference on Differential	Oct 2009
Equations), Mercer University, Macon, GA	
68. Chaired a contributed session and presented a talk at the δ^{th} Mississippi State and	May 2009
University of Alabama at Birmingham Differential Equations and Computational	
Simulations Conference, Starkville, MS	
69. Mathematical Association of America LA/MS 2009 Section Meeting, Clinton, MS	Mar 2009
70. SEARCDE-2008 (Southeastern-Atlantic Regional Conference on Differential	Oct 2008
Equations), University of Arkansas, Little Rock, AR	
oster Presentations:	
71. International Conference on Infectious Diseases, Atlanta, GA, poster presentation	Oct 2006
onference/Workshop Attendance	
1. 2021 Joint Mathematics Meetings, Virtual	Jan 2021
2. 2020 Joint Mathematics Meetings, Virtual 2. 2020 Joint Mathematics Meetings, Denver, CO	Jan 2021
3. 10 th Mississippi State Differential Equations and Computational Simulations	Oct 2014
Conference, Starkville, MS	OC 2017
4. 9th University of North Carolina Greensboro Regional Mathematics & Statistics	Nov 2013
Conference, Greensboro, NC	1107 2013
5. 8 th University of North Carolina Greensboro Regional Mathematics & Statistics	Nov 2012
Conference, Greensboro, NC	1NOV 2012
	Oct 2012
6. 9th Mississippi State and University of Alabama at Birmingham Differential Equations	OCI 2012
and Computational Simulations Conference, Starkville, MS	Nov. 2011
7. 7th University of North Carolina Greensboro Regional Mathematics & Statistics	Nov 2011
Conference, Greensboro, NC	Comt 2011
8. AMS Southeastern Section Meeting, Special Session on Nonlinear Boundary Value	Sept 2011
Problems, Wake Forest University, Winston-Salem, NC	

9. Mini Workshop on Mathematical Biology and Computational Modeling, High	Mar 2010
Performance Computing Collaboratory, Mississippi State University, Starkville, MS	
10. IMA PI Summer Program for Graduate Students on The Mathematics of Inverse	Jun 2009
Problems, University of Delaware, Newark, DE	
11. Mathematical Applications in Ecology and Evolution Workshop, High	Aug 2008
Performance Computing Collaboratory, Mississippi State University, Starkville, MS	
12. IMA - Mathematical Modeling in Industry Workshop XII, University of Minnesota	Aug 2008
Minneapolis, MN, (Submitted a report on Stability of Extending Films)	
13. MBI Summer Program in Mathematical Bioengineering, Mathematical Biosciences	Jul 2008
Institute, Ohio State University, Columbus, OH	
14. 7 th Mississippi State and University of Alabama at Birmingham Differential Equations	Nov 2007
and Computational Simulations Conference, Birmingham, AL	

Teaching Experience

Auburn University Montgomery

2011 - present

- Spring 2023: MATH4210 Analysis I, MATH 4950 Senior Seminar, & MATH4932 Undergrad Research in ODEs
- MATH 2630 Calculus III, MATH 3000 Intro to Higher Mathematics, & Fall 2022: MATH 4932 – Undergrad Research in ODEs
- Summer 2022: MATH 1120 Precalculus Algebra & MATH 1620 Calculus II
- Spring 2022: MATH 4950 Senior Seminar
- Fall 2021: MATH 1610 – Calculus I, MATH 3000 – Intro to Higher Mathematics, & MATH 3690 – Ordinary Differential Equations
- Summer 2021: MATH 1050 College Algebra & MATH 1610 Calculus I
- Spring 2021: MATH 3000 Intro to Higher Mathematics, MATH 4950 Senior Seminar, & MATH 4970 – Undergrad Research in ODEs
- MATH 2630 Calculus III, MATH 3000 Intro to Higher Mathematics, & Fall 2020: MATH 4970 – Undergrad Research in ODEs
- Summer 2020: MATH 1050 College Algebra & MATH 1620 Calculus II
- Spring 2020: MATH 3000 Intro to Higher Mathematics & MATH4950 Senior Seminar
- Fall 2019: MATH 1620 – Calculus II, MATH 3000 – Intro to Higher Mathematics, & MATH 4210/5210 – Analysis I
- Summer 2019: MATH 1620 Calculus II & MATH 1100 Finite Mathematics
- Spring 2019: MATH 4950 Senior Seminar & MATH 4970 Special Topics in Differential Equations
- MATH 1610 Calculus I & MATH 2630 Calculus III Fall 2018:
- Summer 2018: None (NSF funded research)
- Spring 2018: MATH 1620 Calculus II & MATH4950 Senior Seminar
- Fall 2017: CSCI 2000 – Structured Programming I (C++) & MATH 3690 – Ordinary **Differential Equations**
- Summer 2017: None (NSF funded research)
- MATH 1610 Calculus I, MATH 2660 Linear Algebra, & Spring 2017 MATH 4970 – Special Topics in Differential Equations
- Fall 2016: None (AUM Sabbatical)
- Summer 2016: None (NSF funded research)
- Spring 2016: MATH 1620 Calculus II & MATH 4220/6220 Analysis II
- Fall 2015: MATH 2690 – Ordinary Differential Equations & MATH 4210/6210 – Analysis I
- Summer 2015: MATH 0800 Intermediate Algebra, MATH 1150 Precalculus Algebra & Trig, & MATH 4970 – Special Topics in Differential Equations

			Jerome Goddar
•	Spring 2015:	CSCI 2000 – Structured Programming I (C++), MATH 1610 – Calculus	I,
		& MATH 2660 – Linear Algebra	
•	Fall 2014:	CSCI 2000 – Structured Programming I (C++), MATH 2630 – Calculus MATH 1120 – Precalculus Algebra, & HONR 4937 – UHP Independent	
•	Summer 2014	: MATH 0800 – Intermediate Algebra (2 sections) &	•
		MATH 6970 – Ordinary Differential Equations I	
•	Spring 2014:	MATH 4220/6220 – Analysis II & MATH 1620 – Calculus II	
•	Fall 2013:	CSCI 2000 – Structured Programming I (C++), MATH 1620 – Calculus & MATH 4210/6210 – Analysis I	II,
•	Summer 2013	3: MATH 1100 – Finite Mathematics, MATH 0800 – Intermediate Algebr	a,
		MATH 6970 – Ordinary Differential Equations I, MATH 4970 – Specia	-
		Topics in Differential Equations	
•	Spring 2013:	MATH 4220/6220 – Analysis II & MATH 2660 – Linear Algebra	
•	Fall 2012:	MATH 1100 – Finite Mathematics (2 sections), MATH 1610 – Calculus & MATH 4210/6210 – Analysis I	Ι,
•	Summer 2012	2: MATH 1100 – Finite Mathematics, MATH 1610 – Calculus I, &	
		MATH 4970 – Special Topics in Differential Equations	
•	Spring 2012:	MATH 1150 – Precalculus Alg. & Trig., MATH 1620 – Calculus II, & MATH 2660 – Linear Algebra	
•	Fall 2011:	MATH 1150 – Precalculus Alg. & Trig. and MATH 1610 – Calculus I	
Instri	ictor of Record	d at Mississippi State University	2007 - 2011
•		MA 1723 – Calculus II, 1 section	2007 2011
•		MA 1713 – Calculus I, 3 sections	
•		MA 1713 – Calculus I, 2 sections	
•	Fall 2009:	MA1713 – Calculus I, 2 sections	
•		MA1713 – Calculus I and MA1313 – College Algebra	
•	Fall 2008:	MA1713 – Calculus I, 2 sections	
•		MA1713 – Calculus I, 2 sections	
•	E 11 2007	MA 1713 – Calculus I, 2 sections	
A 11	1 T 1	AME C. N	2007 2011
Aajui		at Mississippi College	2005 - 2011
•		2: MAT 101 – College Algebra	
•		7: MAT 101 – College Algebra	
•		MAT 207 – Finite Mathematics	
•	Fall 2005:	MAT 101 – College Algebra	
Teach	ning Assistant a	at Mississippi State University	2006 - 2009
•	•	009: Tutored in the Math Domain	
•	-	008: Tutored in the Learning Center	
•		Tutored in the Learning Center and Mathematics Computer Lab	
•	Fall 2006: Tu	tored in the Learning Center and Mathematics Computer Lab	

Faculty Development

•	Completed the AUM Faculty Development Institute, for certification to teach	Nov 2011	
	online mathematics courses		
•	Completed the Writing Across the Curriculum training, for certification to teach	Oct 2011	
	writing intensive mathematics courses		

Professional Service

Special Session Organization at Regional, National, and International Conferen	nces:
1. Co-organizer of the special session, "Spatial ecology applications using reaction diffusion models" at the <i>2023 Joint Mathematics Meetings</i> , Boston, MA	2022 - 2023
2. Co-organizer of the special session, "Reaction diffusion models with applications in spatial ecology" at the 2022 Joint Mathematics Meetings, Virtual	2021 - 2022
3. Co-organizer of the special session, "Nonlinear reaction diffusion models with applications in spatial ecology" at the <i>2021 Joint Mathematics Meetings</i> , Virtual	2020 - 2021
4. Co-organizer of the special session, "Future directions in theory & applications of nonlinear reaction-diffusion equations" at the <i>2020 Joint Mathematics Meetings</i> , Denver, CO	2019 - 2020
5. Co-organizer of the special session, "Nonlinear reaction-diffusion equations and their applications" at the 2019 Spring Southeastern Sectional Meeting of the American Mathematical Society, Auburn, AL	2018 - 2019
6. Co-organizer of the special session, "Advances in theory & application of reaction diffusion equations" at the 11 th AIMS International Conference on Dynamical Systems and Differential Equations, Orlando, FL	2015 - 2016
7. Co-organizer of the special session, "Advances in theory & application of reaction diffusion equations" at the <i>2016 Joint Mathematics Meetings</i> , Seattle, WA	2015 - 2016
8. Co-organizer of the special session, "Theory & application of reaction diffusion equations" at the <i>2015 Joint Mathematics Meetings</i> , San Antonio, TX	2014 - 2015
9. Co-organizer of the special session, "Reaction diffusion equations and applications," at the 10 th AIMS International Conference on Dynamical Systems and Differential Equations, Madrid, Spain	2013 - 2014
10. Co-organizer of the special session, "Reaction diffusion equations and applications" at the <i>2014 Joint Mathematics Meetings</i> , Baltimore, MD	2013 - 2014
11. Co-organizer of the special session, "Understanding planet earth via reaction diffusion equations," at the <i>2013 Joint Mathematics Meetings</i> , San Diego, CA	2012 - 2013
12. Co-organizer of the special session, "Reaction diffusion equations and applications," at the <i>Ninth AIMS International Conference on Dynamical Systems and Differential Equations</i> , Orlando, FL	2011 - 2012
13. Co-organizer of the special session, "Reaction diffusion equations and applications," at the <i>2012 Joint Mathematics Meetings</i> , Boston, MA	2011 - 2012
Conference Organization:	
14. Main organizer , MAA Southeastern Section Alabama State Dinner, AUM http://sections.maa.org/southeastern/	2015 - 2016
15. Main organizer/Program Chair, Alabama Association of College Teachers of	2015 - 2016
Mathematics' Annual Meeting, AUM, http://ajmonline.org/AACTM/AACTMmeetings.htm 16. Program chair/webmaster , 10 th Mississippi State Conference on Differential Equations & Computational Simulations, Mississippi State University, Starkville, MS University, http://www.ccs.msstate.edu/deconf/de2014/	2014 - 2015
17. Main organizer/webmaster , Department of Mathematics & Computer Science's 2015 Sonia Kovalevsky Day (outreach program to encourage young women to explore mathematics-related careers), http://sciences-srv.aum.edu/~jgoddard/skday2015/	2014 - 2015
18. Main organizer/webmaster , Department of Mathematics & Computer Science's 2013 Sonia Kovalevsky Day (outreach program to encourage young women to explore	2012 - 2013

2017 - present

2016 - present

2018 - 2021

Fall 2020

mathematics-related careers), http://eisence.ur.wom.edu/-ipodebud/skdn/2012/ 19. Program chair/webmater. 9th Mississippi State University of Alabama Birmingham Conference on Differential Equations & Computational Simulations, Mississippi State University, Starkville, MS http://www.cs.msubic.edu/deconf.edu/12/ 20. Local organizing committee member. 9th Mississippi State University of Mcmphis and Mississippi State University, Introductional Simulations, Mississippi State University of Mcmphis and Mississippi State University of Alabama Birmingham Conference on Differential Equations & Computational Simulations, Mississippi State University, Starkville, MS http://math.mstate.edu/deve/2019/ Professional Society & Miscellaneous Professional Service: 21. Member, Scientific Committee, UNCG Regional Mathematics and Statistics Conference 23. Alabama State Director, Mathematical Association of America, Southeastern Section 2016 - 2017 22. Vice president, Alabama Association of College Teachers of Mathematics 2015 - 2016 23. Vice president, Alabama Association of College Teachers of Mathematics 2015 - 2016 24. President, Alabama Association of College Teachers of Mathematics 2015 - 2016 25. Vice president, Alabama Association of Mathematics and Statistics Ph. D. 2010 - 2011 graduate students with the purpose of collaboration, service, and fellowship), Mississippi State University Editorial and Reviewing Service: 27. Co-Editor, Special Issue: Recent Advances in Theory & Application of Reaction 2021 - 2022 2016 - 2017 2017 - 2022 2018 - 2022 - 2021 - 2022 2018 - 2023 - 2024 - 2025 2024 - 2025 - 2024 - 2025 2025 - 2026 - 2026 - 2027 - 2026 - 2027 - 2027 2026 - 2027 - 2028 - 2027 - 2028 - 2028 - 2028 - 2028 - 2029		
Conference on Differential Equations & Computational Simulations, Mississippi State University, Starkville, MS http://www.acs.mstate.edu/deconfde20122 20. Local organizing committee member/webmaster, Differential Equations Weekend, University of Memphis and Mississippi State University, http://shivaii.msh.msstate.edu/dew2011/ 21. Local organizing committee member/webmaster, Differential Equations Weekend, Birmingham Conference on Differential Equations & Computational Simulations, Mississippi State University, Starkville, MS http://msh.msstate.edu/econfe/c2009/ Professional Society & Miscellaneous Professional Service: 22. Member, Scientific Committee, UNCG Regional Mathematics and Statistics Conference 23. Alabama State Director, Mathematical Association of America, Southeastern Section 24. President, Alabama Association of College Teachers of Mathematics 25. Vice president, Pi Club (Association of Mathematics and Statistics Ph. D. graduate students with the purpose of collaboration, service, and fellowship), Mississippi State University Editorial and Reviewing Service: 27. Co-Editor, Special Issue: Recent Advances in Theory & Application of Reaction Diffusion Models in Spatial Ecology in Mathematical Biosciences & Engineering, Impact Factor: 2.080 https://www.ainspress.com/mbe/article/07/8/special-articles 28. Main Editor, Proceedings of the 10th Mississippi State Conference on Differential Equations & Computational Simulations https://www.ainspress.com/mbe/article/07/8/special-articles 29. Ad Hoc Reviewer for: 20. Electronic Research Archive 20. Discrete and Continuous Dynamical Systems 2016 - present 2017 - present 2016 - present 2017 - present 2017 - present 2019 - present 2010 - 2011 2012 - present 2013 - present 2014 - 2016 2023 - present 2016 - present 2017 - present 2017 - present 2017 - present 2017 - present 2018 - present 2019 - present 2017 - present 2017		2011 2012
University, Starkville, MS http://www.ccs.msulate.chu/decon/dc2012/ 20. Local organizing committee member/webmaster, Differential Equations Weekend, University of Memphis and Mississippi State University, http://sibrogi.math.msstate.chu/dew2011/ 21. Local organizing committee member, 8th Mississippi State University of Alabama Birmingham Conference on Differential Equations & Computational Simulations, Mississippi State University, Starkville, MS http://minh.msulate.chu/even/dc2009/ Professional Society & Miscellaneous Professional Service: 22. Member, Scientific Committee, UNCG Regional Mathematics and Statistics Conference 23. Alabama State Director, Mathematical Association of America, Southeastern Section 2016 - 2019 24. President, Alabama Association of College Teachers of Mathematics 25. Vice president, Pi Club (Association of Mathematics and Statistics Ph. D. graduate students with the purpose of collaboration, service, and fellowship), Mississippi State University Editorial and Reviewing Service: 27. Co-Editor, Special Issue: Recent Advances in Theory & Application of Reaction Diffusion Models in Spatial Ecology in Mathematical Biosciences & Engineering, Impact Factor: 2.080 http://www.mimpress.com/mbe/article/6078/special-articles 28. Main Editor, Proceedings of the 10th Mississippi State Conference on Differential Equations & Computational Simulations https://dock.msh.rssate.edu 29. Ad Hoc Reviewer for: Discrete and Continuous Dynamical Systems Discrete Alabama Association of Analysis and Applications Discrete Proceedings of the Psh Mississippi State University of Alabama Birmingham	11 , ,	2011 - 2012
20. Local organizing committee member/webmaster, Differential Equations Weekend, University of Memphis and Mississippi State University, https://www.inspace.com/deev2011/ 21. Local organizing committee member, %th Mississippi State University of Alabama Birmingham Conference on Differential Equations & Computational Simulations, Mississippi State University, Starkville, MS http://math.mestate.edu/eventvde.conf/de2009/ Professional Society & Miscellaneous Professional Service: 22. Member, Scientific Committee, UNCG Regional Mathematics and Statistics Conference 23. Alabama State Director, Mathematical Association of America, Southeastern Section 24. President, Alabama Association of College Teachers of Mathematics 24. President, Alabama Association of College Teachers of Mathematics 25. Vice president, Pi Club (Association of Mathematics and Statistics Ph. D. graduate students with the purpose of collaboration, service, and fellowship), Mississippi State University Editorial and Reviewing Service: 27. Co-Editor, Special Issue: Recent Advances in Theory & Application of Reaction Diffusion Models in Spatial Ecology in Mathematical Biosciences & Engineering, Impact Factor; 2,080 https://www.aimspress.com/inbe/article/6078/special-articles 28. Main Editor, Proceedings of the 10th Mississippi State Conference on Differential Equations & Computational Simulations http://www.aimspress.com/inbe/article/6078/special-articles 29. Ad Hoc Reviewer for: 20. Electronic Research Archive 20. Discrete and Continuous Dynamical Systems 20. Mathematical Biosciences and Engineering 2014 - present 2014 - present 2015 - present 2016 - present 2017 - present 2011 - present 2012 - present 2013 - present 2014 - present 2014 - present 2015 - present 2017 - present 2017 - present 2018 - present 2019 - present 2019 - present 2010 - present 2011 - present 2011 - present 2012 - present 2013 - present 2014 - present 2015 - present 2017 - present 2017 - present 2017		
University of Memphis and Mississippi State University, http://dsh.wim.und.msstate.edu/deve2011/ 21. Local organizing committee member, 8th Mississippi State University of Alabama Birmingham Conference on Differential Equations & Computational Simulations, Mississippi State University, Starkville, MS http://math.mstate.edu/events/de_confec2009/ Professional Society & Miscellaneous Professional Service: 22. Member, Scientific Committee, UNCG Regional Mathematics and Statistics Conference 23. Alabama Association of College Teachers of Mathematics 2016 - 2017 24. President, Alabama Association of College Teachers of Mathematics 2016 - 2017 25. Vice president, Alabama Association of Off Mathematics and Statistics Ph. D. graduate students with the purpose of collaboration, service, and fellowship), Mississippi State University Editorial and Reviewing Service: 27. Co-Editor, Special Issue: Recent Advances in Theory & Application of Reaction Diffusion Models in Spatial Ecology in Mathematical Biosciences & Engineering, Impact Factor: 2.080 https://www.nimpress.com/mbe/article/0078/special-articles 28. Main Editor, Proceedings of the 10th Mississippi State Conference on Differential Equations & Computational Simulations https://www.nimpress.com/mbe/article/0078/special-articles 29. Ad Hoc Reviewer for: Discrete and Continuous Dynamical Systems Discrete Communications in Applied Analysis Discrete Continuous Dynamical Systems Discrete Continuous Dynamical Sys		2010 2011
2008 - 2009 Birmingham Conference on Differential Equations & Computational Simulations, Mississippi State University, Starkville, MS http://math.mstate.edu/events/de.com/de.2009/ Professional Society & Miscellaneous Professional Service: 22. Member, Scientific Committee, UNCG Regional Mathematics and Statistics Conference 23. Alabama State Director, Mathematical Association of America, Southeastern Section 24. President, Alabama Association of College Teachers of Mathematics 25. Vice president, Pi Club (Association of Mathematics and Statistics Ph. D. graduate students with the purpose of collaboration, service, and fellowship), Mississippi State University Editorial and Reviewing Service: 27. Co-Editor, Special Issue: Recent Advances in Theory & Application of Reaction Diffusion Models in Spatial Ecology in Mathematical Biosciences & Engineering, Impact Factor: 2.080 https://www.aimspress.com/imbe/article/6078/special-articles 28. Main Editor, Proceedings of the 10th Mississippi State Conference on Differential Equations & Computational Simulations http://wide.maih.tstate.edu/ 29. Ad Hoc Reviewer for: Electronic Research Archive Biectronic Research Archive AdMathematical Biosciences and Engineering AMM Mathematical Reviews AMM Mathematical Reviews AMM Mathematical Reviews Journal of Mathematical Analysis Journal of Mathematical Analysis and Applications 30. Textbook Reviewer for Barnctt/ZieglerBylcen's, Finite Mathematics for Business, Economics, Life Sciences and Social Sciences, 12 edition, Pearson 31. Main Editor, Proceedings of the 9th Mississippi State — University of Alabama Birmingham Conference on Differential Equations & Computational Simulations, Conference 20, 2013 http://ede.math.tstate.edu/conf.proc20toc.html/ University Service Member, AUM COS Research & Scholarship Committee Member, AUM COS Undergraduate Research Committee Member, AUM Mathematics Awards Committee Member, AUM Mathematics Awards Committee 2017 - present 2017 - present 2017 - present		
Birmingham Conference on Differential Equations & Computational Simulations, Mississippi State University, Starkville, MS http://mish.mastate.edu/ecent/de2009/ Professional Society & Miscellaneous Professional Service. 22. Member, Scientific Committee, UNCG Regional Mathematics and Statistics Conference 23. Alabama State Director, Mathematical Association of Mathematics 2016 - 2019 24. President, Alabama Association of College Teachers of Mathematics 2016 - 2017 25. Vice president, Alabama Association of College Teachers of Mathematics 2015 - 2016 26. Co-founder/president, Pi Club (Association of Mathematics and Statistics Ph. D. graduate students with the purpose of collaboration, service, and fellowship), Mississippi State University Editorial and Reviewing Service: 27. Co-Editor, Special Issue: Recent Advances in Theory & Application of Reaction Diffusion Models in Spatial Ecology in Mathematical Biosciences & Engineering, Impact Factor: 2.080 https://www.minspress.com/mbe/article/6078/special-articles 28. Main Editor, Proceedings of the 10 th Mississippi State Conference on Differential Equations & Computational Simulations http://doi.org/10.1016/j.com/10.1016/j.co		
Professional Society & Miscellaneous Professional Service: 22. Member, Scientific Committee, UNCG Regional Mathematics and Statistics Conference 23. Alabama State Director, Mathematical Association of America, Southeastern Section 24. President, Alabama Association of College Teachers of Mathematics 25. Vice president, Alabama Association of College Teachers of Mathematics 26. Co-founder/president, Pi Club (Association of Mathematics and Statistics Ph. D. graduate students with the purpose of collaboration, service, and fellowship), Mississippi State University Editorial and Reviewing Service: 27. Co-Editor, Special Issue: Recent Advances in Theory & Application of Reaction Diffusion Models in Spatial Ecology in Mathematical Biosciences & Engineering, Impact Factor: 2.080 https://www.aimspress.com/mbe/article/6078/special-articles 28. Main Editor, Proceedings of the 10 th Mississippi State Conference on Differential Equations & Computational Simulations 29. Ad Hoc Reviewer for: a Electronic Research Archive Discrete and Continuous Dynamical Systems Mathematical Biosciences and Engineering AMS Mathematical Reviews Communications in Applied Analysis Journal of Mathematical Analysis and Applications 30. Textbook Reviewer for Barnett/Ziegler/Byleen's, Finite Mathematics for Business, Economics, Life Sciences and Social Sciences, 12 edition, Pearson 31. Main Editor, Proceedings of the 9 th Mississippi State — University of Alabama Birmingham Conference on Differential Equations & Computational Simulations, Conference 20, 2013 http://eide.math.tstate.edu/conf-proc/2010c.html/ University Service Member, AUM COS Research & Scholarship Committee Member, AUM COS Undergraduate Research Committee Member, AUM Mathematics Awards Committee Member, AUM Mathematics Avards Committee		2008 - 2009
Professional Society & Miscellaneous Professional Service: 22. Member, Scientific Committee, UNCG Regional Mathematics and Statistics Conference 23. Alabama State Director, Mathematical Association of America, Southeastern Section 24. President, Alabama Association of College Teachers of Mathematics 2016 - 2017 25. Vice president, Alabama Association of College Teachers of Mathematics 2016 - 2017 26. Co-founder/president, Pi Club (Association of Mathematics and Statistics Ph. D. graduate students with the purpose of collaboration, service, and fellowship), Mississippi State University Editorial and Reviewing Service: 27. Co-Editor, Special Issue: Recent Advances in Theory & Application of Reaction Diffusion Models in Spatial Ecology in Mathematical Biosciences & Engineering, Impact Factor: 2.080 https://www.aimspress.com/mbe/article/6078/special-articles 28. Main Editor, Proceedings of the 10th Mississippi State Conference on Differential Equations & Computational Simulations https://doi.org/10.1006/10.10		
22. Member, Scientific Committee, UNCG Regional Mathematics and Statistics Conference 23. Alabama State Director, Mathematical Association of America, Southeastern Section 24. President, Alabama Association of College Teachers of Mathematics 2016 - 2019 25. Vice president, Alabama Association of College Teachers of Mathematics 26. Co-founder/president, Pi Club (Association of Mathematics and Statistics Ph. D. graduate students with the purpose of collaboration, service, and fellowship), Mississippi State University Editorial and Reviewing Service: 27. Co-Editor, Special Issue: Recent Advances in Theory & Application of Reaction Diffusion Models in Spatial Ecology in Mathematical Biosciences & Engineering, Impact Factor: 2.080 https://www.aimspress.com/mbe/article/6078/special-articles 28. Main Editor, Proceedings of the 10th Mississippi State Conference on Differential Equations & Computational Simulations http://cide.math.rstate.ch/ 29. Ad Hoc Reviewer for: □ Discrete and Continuous Dynamical Systems □ Discrete and Continuous Dynamical Systems □ Mathematical Biosciences and Engineering □ AMS Mathematical Reviews □ Journal of Mathematical Analysis and Applications □ Journal of Mathematics of the 9th Mississippi State - University of Alabama □ Journal of Mathematical Analysis and Applications □ Journal of Mathematics of the 9th Mississippi State - University of Alabama □ Journal of Mathematics of the 9th Mississispipi State - University of Alabama □ Journal of Mathematics of the 9th Mississippi Stat	Mississippi State University, Starkville, MS http://math.msstate.edu/events/de.conf/de2009/	
23. Alabama State Director, Mathematical Association of America, Southeastern Section 24. President, Alabama Association of College Teachers of Mathematics 25. Vice president, Alabama Association of College Teachers of Mathematics 26. Co-founder/president, Pi Club (Association of Mathematics and Statistics Ph. D. graduate students with the purpose of collaboration, service, and fellowship), Mississippi State University Editorial and Reviewing Service: 27. Co-Editor, Special Issue: Recent Advances in Theory & Application of Reaction Diffusion Models in Spatial Ecology in Mathematical Biosciences & Engineering, Impact Factor: 2.080 https://www.aimspress.com/mbe/article/6078/special-articles 28. Main Editor, Proceedings of the 10th Mississippi State Conference on Differential Equations & Computational Simulations http://ejde math.tvstate.edu/ 29. Ad Hoc Reviewer for: Discrete and Continuous Dynamical Systems Mathematical Biosciences and Engineering AMS Mathematical Reviews Communications in Applied Analysis Communications in Applied Analysis and Applications 30. Textbook Reviewer for Barnett/Ziegler/Byleen's, Finite Mathematics for Business, Economics, Life Sciences and Social Sciences, 12 edition, Pearson 31. Main Editor, Proceedings of the 9th Mississippi State – University of Alabama Birmingham Conference on Differential Equations & Computational Simulations, Conference 20, 2013 http://ejde.math.tvstate.edu/conf-proc20toc.html/ University Service Member, AUM COS Research & Scholarship Committee Member, AUM COS Undergraduate Research Committee Member, AUM Mathematics Awards Committee Member, AUM Mathematics Awards Committee	Professional Society & Miscellaneous Professional Service:	
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24. President, Alabama Association of College Teachers of Mathematics 25. Vice president, Alabama Association of College Teachers of Mathematics 26. Co-founder/president, Pi Club (Association of Mathematics and Statistics Ph. D. graduate students with the purpose of collaboration, service, and fellowship), Mississippi State University Editorial and Reviewing Service: 27. Co-Editor, Special Issue: Recent Advances in Theory & Application of Reaction Diffusion Models in Spatial Ecology in Mathematical Biosciences & Engineering, Impact Factor: 2.080 https://www.aimspress.com/mbe/article/6078/special-articles 28. Main Editor, Proceedings of the 10th Mississippi State Conference on Differential Equations & Computational Simulations http://ede.math.txstate.edu/ 29. Ad Hoe Reviewer for: Discrete and Continuous Dynamical Systems Discrete and Continuous Dynamical Systems Mathematical Biosciences and Engineering Mathematical Reviews Communications in Applied Analysis Communications in Applied Analysis Journal of Mathematical Analysis and Applications 30. Textbook Reviewer for Barnett/Ziegler/Byleen's, Finite Mathematics for Business, Economics, Life Sciences and Social Sciences, 12 edition, Pearson Birmingham Conference on Differential Equations & Computational Simulations, Conference 20, 2013 http://eide.math.txstate.edu/conf-proc/20/toe.html/ University Service Member, AUM COS Research & Scholarship Committee Member, AUM COS Undergraduate Research Committee Member, AUM Mathematics Awards Committee Member, AUM Mathematics Awards Committee	·	
25. Vice president, Alabama Association of College Teachers of Mathematics 26. Co-founder/president, Pi Club (Association of Mathematics and Statistics Ph. D. graduate students with the purpose of collaboration, service, and fellowship), Mississippi State University Editorial and Reviewing Service: 27. Co-Editor, Special Issue: Recent Advances in Theory & Application of Reaction Diffusion Models in Spatial Ecology in Mathematical Biosciences & Engineering, Impact Factor: 2.080 https://www.aimspress.com/mbc/article/6078/special-articles 28. Main Editor, Proceedings of the 10th Mississippi State Conference on Differential Equations & Computational Simulations http://del.math.tsstate.edu/ 29. Ad Hoc Reviewer for: O Electronic Research Archive O Discrete and Continuous Dynamical Systems O Mathematical Biosciences and Engineering AMS Mathematical Reviews Communications in Applied Analysis Journal of Mathematical Analysis and Applications 2011 - present 2013 - present 2014 - present 2014 - present 2015 - 2022 2021 - present 2016 - present 2017 - present 2017 - present 2018 - present 2019 - present 2019 - present 2010 - present 2010 - present 2011 - present 2011 - present 2012 - present 2013 - present 2014 - 2016 2021 - present 2015 - present 2016 - present 2017 - present 2017 - present 2018 - present 2019 - present 2019 - present 2010 - present 2010 - present 2011 - present 2011 - present 2012 - 2013 - 2013 - 2013 - 2014 - 2015 2011 - present 2012 - 2013 - 2013 - 2014 - 2015 2012 - 2013 - 2013 - 2014 - 2015 2012 - 2013 - 2014 - 2016 2015 -		
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graduate students with the purpose of collaboration, service, and fellowship), Mississippi State University Editorial and Reviewing Service: 27. Co-Editor, Special Issue: Recent Advances in Theory & Application of Reaction Diffusion Models in Spatial Ecology in Mathematical Biosciences & Engineering, Impact Factor: 2.080 https://www.aimspress.com/mbe/article/6078/special-articles 28. Main Editor, Proceedings of the 10th Mississippi State Conference on Differential Equations & Computational Simulations http://cide.math.txstate.edu/ 29. Ad Hoc Reviewer for: O Electronic Research Archive O Discrete and Continuous Dynamical Systems O Mathematical Biosciences and Engineering AMS Mathematical Reviews O Journal of Mathematical Analysis and Applications 30. Textbook Reviewer for Barnett/Ziegler/Byleen's, Finite Mathematics for Business, Economics, Life Sciences and Social Sciences, 12 edition, Pearson 31. Main Editor, Proceedings of the 9th Mississippi State — University of Alabama Birmingham Conference on Differential Equations & Computational Simulations, Conference 20, 2013 http://ejde.math.txstate.edu/conf-proc/20/toc.html/ University Service Member, AUM COS Research & Scholarship Committee Faculty advisor for the AUM Mathematics Club Member, AUM COS Undergraduate Research Committee Member, AUM Modelmatics Awards Committee		
Editorial and Reviewing Service: 27. Co-Editor, Special Issue: Recent Advances in Theory & Application of Reaction Diffusion Models in Spatial Ecology in Mathematical Biosciences & Engineering, Impact Factor; 2.080 https://www.aimspress.com/mbe/article/6078/special-articles 28. Main Editor, Proceedings of the 10th Mississippi State Conference on Differential Equations & Computational Simulations http://eide.math.tsstate.edu/ 29. Ad Hoc Reviewer for: Discrete and Continuous Dynamical Systems Mathematical Biosciences and Engineering AMS Mathematical Reviews AMS Mathematical Reviews Communications in Applied Analysis Journal of Mathematical Analysis and Applications 30. Textbook Reviewer for Barnett/Ziegler/Byleen's, Finite Mathematics for Business, Economics, Life Sciences and Social Sciences, 12 edition, Pearson 31. Main Editor, Proceedings of the 9th Mississippi State – University of Alabama Birmingham Conference on Differential Equations & Computational Simulations, Conference 20, 2013 http://ejde.math.tsstate.edu/conf-proc/20/toc.html/ University Service Member, AUM COS Research & Scholarship Committee Faculty advisor for the AUM Mathematics Club Member, AUM COS Undergraduate Research Committee Member, AUM Most Undergraduate Research Committee Member, AUM Mathematics Awards Committee		2010 2011
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OL CATROLIA IN CONTRACTOR CONTRAC	Member, AUM Mathematics Awards Committee Chair AUM Mathematics Committee Chair AUM Mathematics Committee	2017 - present

Chair, AUM Mathematics Curriculum Committee

• Chair, AUM Mathematics Developmental Mathematics Committee

Chair, AUM Mathematics Tenure & Promotion Committee

Member, AUM Administrator Evaluation Committee (university-wide)

•	Member, AUM COS Hiring Committee for QEP director	Spring 2020
•	Chair, AUM Mathematics Grade Appeals Review Committee	Spring 2020
•	Member, AUM Computer Science Third Year Review Committee	Spring 2020
•	Chair, AUM Mathematics Tenure & Promotion Committee	Fall 2019
•	Member, AUM Mathematics Hiring Committee for a lecturer position in math	Spring 2019
	Chair, AUM Mathematics Third Year Review Committee	
•		Spring 2019
•	Member , AUM Mathematics Hiring Committee for an assistant professor position	Fall 2018
	in mathematics	G 2010
•	Member, AUM Mathematics Hiring Committee for Math Lab Coordinator	Summer 2018
•	Member, AUM Mathematics Hiring Committee for QEP Director	Summer 2018
•	Chair, AUM Mathematics Third Year Review Committee	Spring 2018
•	Member, AUM Mathematics Master's Degree in Applied and Computational	2017 - 2018
	Mathematics Program Proposal committee	
•	Chair, AUM CAS Undergraduate Research Committee	2015 - 2018
•	Member, AUM SACS Quality Enhancement Program Committee (university-wide)	2017 - 2018
•	Member, AUM Administrator Evaluation Committee (university-wide)	2011 - 2017
•	Member, AUM Mathematics Hiring Committee for an assistant professor position	Fall 2017
	in computer science	
•	Member, AUM Mathematics Hiring Committee for an instructor's position	Fall 2017
•	Member, AUM Mathematics SK Day Organizing Committee	Fall 2017
•	Member, AUM Mathematics Hiring Committee for several instructor's positions	Spring 2016
•	Co-advisor for the AUM Mathematics/Pre-Engineering major	2012 - 2016
•	Faculty advisor for the AUM Mathematics Club	2012 - 2016
•	Member, AUM Mathematics Scholarship Committee	2015 - 2016
•	Member, AUM CAS Undergraduate Research Committee	2013 - 2016
	=	Fall 2015
•	Member, AUM Mathematics Hiring Committee for an instructor's position	
•	Chair, AUM Mathematics Hiring Committee for an assistant professor position in mathematics	Fall 2015
		C 201 <i>5</i>
•	Member, AUM CAS Distinguished Teaching Award Nominations Committee	Spring 2015
•	Member, AUM CAS Advisory Committee for the SSRP	Spring 2015
•	Chair/Webmaster, AUM Mathematics SK Day Organizing Committee	Fall 2015
•	Chair, AUM Mathematics Hiring Committee for an assistant professor position	Fall 2014
	in mathematics	
•	Member, AUM Mathematics Annual Assessment Committee	Spring 2014
•	Member of the AUM Mathematics SRAC 2014 Local Organizing Committee	Spring 2014
•	Member of the AUM Mathematics Calculus Textbook Selection Committee	Spring 2014
•	Member, AUM Mathematics Hiring Committee for an assistant professor position	Fall 2013
	in computer science	
•	Co-Chair/Webmaster, AUM Mathematics SK Day Organizing Committee	Fall 2013
•	Chair, AUM Mathematics Hiring Committee for an instructor's position	Spring 2013
•	Member, AUM Mathematics ASPE Scholarship Selection Committee	2012 - 2015
•	Chair, AUM Mathematics Hiring Committee for an instructor's position	Fall 2012
•	Participated in AUM Mathematics new student orientation	2012 - 2015
•	Member, AUM Mathematics Hiring Committee for an instructor's position	Summer 2012
•	Judge, 2012 AUM SOS Undergraduate Research Symposium	April 2012
•	Member, AUM Mathematics Master's Degree in Computational Mathematics	2011 - 2012
	Program Proposal committee	
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Community Service

1. College student leader, Frazer UMC, Montgomery, AL	2020 - present
2. Senior high student small group leader and high school master teacher, Frazer UMC,	2017 - 2020
Montgomery, AL	
3. College student small group leader, Frazer UMC, Montgomery, AL	2013 - 2016
4. Invited speaker at the 2012 MS School for Math & Science Math & Science Day,	Mar 2012
(presented 2 sessions for high school students) Columbus, MS	
5. Assistant Scoutmaster, Troop 99, Boy Scouts of America, Jackson, MS	2001 - 2015
6. Board Member, Aldersgate Youth Retreat, Jackson, MS	2000 - 2016
7. Guest Speaker, Aldersgate Youth Retreat, Jackson, MS	' 10, ' 11, ' 15
8. Worship Leader, New Covenant UMC, Jackson, MS	1999 - 2010
9. Co-Director, Aldersgate Youth Retreat, Jackson, MS	2004 - 2009
10. Lay Leader, New Covenant UMC, Jackson, MS	2004 - 2009
11. Assistant Youth Minister, New Covenant UMC, Jackson, MS	2001 - 2008
12. Leadership Team, Baptist Student Union, Mississippi College, Clinton, MS	2003 - 2004
13. Assistant Director, Aldersgate Youth Retreat, Jackson, MS	2002 - 2004
14. Leadership Team, Baptist Student Union, Hinds Community College, Raymond, MS	2001 - 2002
15. Praise Band, Baptist Student Union, Hinds Community College, Raymond, MS	2000 - 2001

Professional Memberships

•	Mathematical Association of America	2010 - present
•	American Mathematical Society	2006 – present
•	Ecological Society of America	2020 – present

Computational and Technical Skills

- Programming Knowledge
 - o C/C++
 - Visual and Quick Basic
 - o HTML, PHP, and JavaScript
- Operating Systems used: DOS, Windows 3.1, 95, 98, 2000, ME, XP, Vista, 7, 10, and Linux
- Mathematica, MatLab, and LaTeX
- Web designing in HTML with PHP server-side scripting

References

1. Prof. Ratnasingham Shivaji

H. Barton Excellence Professor Department of Mathematics and Statistics University of North Carolina Greensboro shivaji@uncg.edu;

Website: https://mathstats.uncg.edu/people/directory/shivaji/

2. Prof. Chris Cosner

Cooper Fellow of the College of Arts and Sciences Department of Mathematics University of Miami

c.cosner@math.miami.edu; (305)284-3519

Website: https://www.math.miami.edu/directory/faculty-listing/

3. **Prof. Junping Shi**

Professor & Department Chair Department of Mathematics College of William and Mary shij@math.wm.edu; (757)221-2030

Website: https://www.wm.edu/as/cams/mathematical-biology/faculty/shi-j.php

4. Prof. Alfonso Castro

McAlister Professor Department of Mathematics Harvey Mudd College

castro@g.hmc.edu; (909)607-3171

Website: https://www.hmc.edu/mathematics/people/faculty/alfonso-castro/

5. Prof. James T. Cronin

George C. Kent Professor Department of Biological Sciences Louisiana State University jcronin@lsu.edu; (225)578-7218

Website: https://www.jcronin.biology.lsu.edu/index.html