Jahmario Williams

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Education

Mississippi State University, Mississippi State, MS 39762

PhD in Mathematical Sciences

- Concentration: Partial Differential Equations and P-Laplacian Equations
- Dissertation Advisor: Dr. Hai Dang

Mississippi State University, Mississippi State, MS 39762

Master of Science in Mathematics, 2008

- Graduated *Summa Cum Laude*
- Concentration: Applied Mathematics
- Thesis Advisor: Dr. Hai Dang

University of Mississippi, University, MS 38677

Bachelor Degree in Mathematics, 2006

Research Publications

1. On a Three-Dimensional System of Nonlinear Difference Equations. *Electron. J. Math. Anal. Appl.* **5(2)**, (2017), 138-146.
2. Periodic Solutions to a Class of Mixed Max-Type Nonlinear Difference Equations. *Adv. Dyn. Syst. Appl.* **12(1)**, (2017), 51-62.
3. On a Class of Nonlinear Max-Type Difference Equations. *Cogent Mathematics.* **3(1)**, (2016), 1-11. *Taylor & Francis Publishing Group*
4. with Oscar H. Criner and Willie E. Taylor: On the Solutions of a System of Nonlinear Difference Equations. *Int. J. Difference Equ.* **10(2)**, (2015), 161-166.
5. with Dr. Hai Dang: Positive radial solutions for a class of Singular p-Laplacian systems in a ball. *Mediterr. J. Math.* **12(3)**, (2015), 791-801.
6. Positive radial solutions for p-Laplacian singular boundary value problems. Doctoral Dissertation, *Mississppi State University.* **46 pp.** (2013).
7. with Dr. Hai Dang: Positive radial solutions for a class of quasilinear boundary value problems in a ball. *Nonlinear Analysis.* **75(4)**, (2012), 1744-1750.

Grant

- Seed Grant at Texas Southern University ($6,000), 2017.

Work Experience

- **Assistant Professor, Fall 2013-Present, Department of Mathematics**, Texas Southern University
- **Adjunct Professor, Spring 2016-Present, Department of Mathematics**, Houston Communtiy College

Conference Paper

1. "MultiObjective Modeling and Optimization in Design", Qiang Chen, Derek Dalle, Chad Griep, Jingwei Hu, and Zhenqiu Xie.

Honors and Awards

- Thomas F. Freeman Honors College Faculty Fellow, August 15, 2016.
- McCleary Teaching Excellent Award, May 10, 2016.
- Texas Southern University College of Science, Engineering and Technology Distinguished Teaching Award, April 28, 2016.
- Academic Faculty Excellent Award Nomination, Houston Community College, Spring 2016.
- Texas Southern University Women's Soccer Faculty and Staff Appreciation, September 25, 2015.
- Faculty Appreciation award from the James Worth Bagley College of Engineering and Mississippi State University, May 2011.
- Outstanding Graduate Student award, Department of Mathematics and Statistics, Mississippi State University, May 2008.
- Master recipient of AGEM Scholar from Mississippi State University, May 2008.
- Recipient of Pi Mu Epsilon (National Math Honors Society) scholar from Univeristy of Mississippi, May 2006.

Presentations

1. Presented a poster presentation on, "On a Class of Nonlinear Max-Type Difference Equations", at Texas Southern University Research Week March 28, 2017.
2. Presented a lecture on, "Solving Differential Equations Using Laplace Transforms", at Texas Southern University Honors College November 17, 2016.
3. Presented a talk on, "Positive Radial Solutions for a class of Quasilinear Boundary Value Problems in a ball", at Praire View A & M University April 24, 2015.
4. Presented a talk on, "Positive Radial Solutions for a class of Quasilinear Boundary Value Problems in a ball", at the University of Houston April 17, 2015.

5. Presented a talk on, "Positive Radial Solutions for a class of Quasilinear Boundary Value Problems in a ball", at the 35th Annual Texas Partial Differential Equations Conference held March 3-4, 2012.
6. Presented a talk on "The Anti-Maximum Principle for the Sturm-Louiville Boundary Value Problem", at the 2009 Differential Equation Weekend in Memphis, November 9, 2011. Invited to a workshop on "Computational Wave Propagation" at Michigan State University held June 7-25, 2010.
7. Presented a talk on, "Euler's Formula", at the University of Mississipi Pi Mu Epsilon (National Math Honors Society) held April 2006.

Conferences and Workshops Attended

1. Attended an "Academic Career Workshop" held April 6-9, 2017 in Houston, Tx at Houston Airport Marriott.
2. Attended a "NSF Workshop" held January 25, 2016 in Houston, Tx at Houston Marriott Medical Center.
3. Attended a Mini-School and workshop on "The Analysis of PDEs of fluid Mechanics and Related Models" held October 10-13, 2015.
4. Attended the 9th Differential Equations and Computational Simultations held October 4-6, 2012.
5. Attended a workshop on "Future Directions in Applied Mathematics", at NC State University held March 10-11, 2011.
6. Attended a workshop on "Computational Wave Propagation" at Michigan State University held June 7-25, 2010.
7. Attended a workshop on "Career Options for Underrepresented Groups in Mathematical Sciences", at The Univerisity of Minnesota held March 25-27, 2010.
8. Attended a workshop on "Mathematical Modeling in Industry XI" at The University of Minnesota held August 8-17, 2007.

Teaching Experience

1. Fall 2017: Math 242 - Calculus II, Math 251 - Differential Equations, Math 134 - Trigonometry
2. Spring 2017: Math 243 - Calculus III, Math 250 - Linear Algebra, Math 134 - Trigonometry
3. Fall 2016: Math 242 - Calculus II, Math 251 - Differential Equations, Math 134 - Trigonometry
4. Spring 2016: Math 241 - Calculus I, Math 251 - Differential Equations, Math 460 - Complex Analysis
5. Fall 2015: Math 243 - Calculus III, Math 134-Trigonometry, Math 136-PreCalculus
6. Summer I 2015: Math 135 - Business Math
7. Spring 2015: Math 242 - Calculus II, Math 134-Trigonometry two sections, Math 133-College Algebra
8. Fall 2014: Math 242 - Calculus II, Math 136-PreCalculus, Math 134-Trigonometry
9. Summer II 2014: Math 131 - Developmental Math

10. Summer I 2014: Math 135 - Business Calculus
11. Spring 2014: Math 241 - Calculus I, Math 134-Trigonometry
12. Fall 2013: Math 242 - Calculus II, Math 136-PreCalculus
13. Summer 2013: MA 0003 - Developmental Math, two sections
14. Fall 2012: MA 1613 - Business Calculus, two sections
15. Spring 2012: MA 1713 - Calculus I
16. Fall 2011: MA 1713 - Calculus I, two sections
17. Summer 2011: MA 0003 - Developmental Math, two sections
18. Spring 2011: MA 1713 - Calculus I, two sections
19. Fall 2010: MA 1323 MA 1613 - Business Calculus, two sections Spring
20. Spring 2010: MA 1323 MA 1613 - Business Calculus, two sections Fall
21. Fall 2009: MA 1713 - Business Calculus, two sections
22. Spring 2009: MA 1323 MA 1613 - Business Calculus, two sections Fall
23. Fall 2008: MA 1713 - Business Calculus, two sections
24. Spring 2008: MA 1323 MA 1613 - Business Calculus, two sections
25. Fall 2007: MA 1713 - Business Calculus, two sections

Computer Skills

- Programming Languages: Mathematica, MATLAB, Visual Basics, and LaTeX.
- Computer Software: Microsoft Office.

Current Memberships

- American Mathematical Society
- Institute for Mathematics and Its Application

Student

- Chibueze Ezeudu, B.A. student, Texas Southern University (Summer 2014)