

CURRICULUM VITAE

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Research Interests

- Functional analysis, operator algebras, operator theory, and matrix analysis.

Education

- Ph.D. 2016 University of Louisiana at Lafayette
- M.S. 2012 University of Louisiana at Lafayette
- B.S. 2010 University of Louisiana at Lafayette

Teaching Experience

- Fall 2018 - Present, Assistant Professor of Mathematics at Prairie View A&M University
- Fall 2019 - Present, Adjunct Mathematics Instructor at Lone Star College Cy-Fair
- Fall 2017 - Summer 2018, Mathematics Lecturer II at Prairie View A&M University
- Spring 2017, Adjunct Mathematics Instructor at University of Louisiana at Lafayette
- Fall 2011 - Fall 2016, Teaching Assistant at University of Louisiana at Lafayette.

Teaching Experience at Prairie View A & M University

- Math 1314/1113 College Algebra: Summer 2020, Fall 2022
- Math 1115/1511 College Algebra and Trigonometry: Fall 2020, Fall 2021, Summer 2022
- Math 2413/1124 Calculus with Analytic Geometry I: Fall 2017, Spring 2018, Spring 2019, Fall 2019, Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2022, Spring 2023
- Math 1153 Finite Mathematics: Fall 2017, Spring 2018, Fall 2019, Spring 2020
- Math 2305 Discrete Mathematics: Spring 2023
- Math 2320 Differential Equations: Spring 2023

- Math 2414/2024 Calculus with Analytic Geometry II: Fall 2017, Spring 2018, Spring 2019, Spring 2020, Fall 2020, Spring 2021, Spring 2022
- Math 3401 Calculus with Analytic Geometry III: Fall 2022
- Math 3995 College Geometry: Fall 2017
- Math 4173 Advanced Math for Engineers: Fall 2020
- Math 4308 Advanced Calculus 1: Spring 2022

Teaching Experience at Lone Star College

- Math 1314 College Algebra: Fall 2019, Fall 2021, Fall 2022, Spring 2023
- Math 1316 Trigonometry: Fall 2020
- Math 1324 Math for Business and Social Sciences: Fall 2022
- Math 1332 Mathematics for Liberal Arts: Fall 2019, Fall 2022
- Math 1342 Statistics: Spring 2020, Summer 2022
- Math 2412 Precalculus: Fall 2020
- Math 2415 Calculus III: Summer 2020, Summer 2021

Teaching Experience at UL Lafayette

- Math 103/104 College Algebra: Summer 2011, Spring 2012, Spring 2017.
- Math 105 College Algebra: Fall 2011, Fall 2012, Spring 2017.
- Math 109 Precalculus: Spring 2013, Summer 2014, Spring 2016.
- Math 110 Trigonometry: Spring 2014, Spring 2015, Fall 2015, Fall 2016, Spring 2017.
- Math 250 Survey of Calculus: Summer 2012, Fall 2013, Fall 2014.
- Math 270 Calculus I: Spring 2017.

Research Papers

- *Properly Infinite Corona Algebras*, New York J. Math. Vol. 28 (2022), p. 69 - 89
- *Generalized Quasidiagonality for Extensions*, Banach J. Math. Anal. 13 (3) 582 - 598, July 2019.
- *Functorial Properties of $\text{Ext}_u(\cdot, \mathcal{B})$ when \mathcal{B} is Simple with Continuous Scale*, J. Operator Theory, 81 (2019) no. 2, 481–498.
- *Density of a Normal Subgroup of the Invertibles in Certain Multiplier Algebras*, Operators and Matrices Volume 11 Issue 3 # 11-40 pages 601-622.
- *Projections and Proper Infiniteness for Corona Algebras*, Submitted to Operators and Matrices, July 2022

Conferences and Presentations

- August 3-6, 2016, MAA (Mathematical Association of America) Mathfest in Columbus, Ohio.

Presentation: Density of a Normal Subgroup of the Invertibles in Certain Multiplier Algebras.

- February 25-27, 2016, MAA Section meeting Louisiana/ Mississippi Section

Presentation: Density of a Normal Subgroup of the Invertibles in Certain Multiplier Algebras.

- May 11-15, 2015, Classification of C^* -algebras, Flow Equivalence of Shift Spaces, and Graph and Leavitt Path Algebras at UL Lafayette. I was the main graduate student organizer.
- Speaker at UL Lafayette Functional Analysis Seminar. I gave several presentations on the basic theory of C^* -algebras. I also gave some presentations on certain sections of my dissertation.

Awards and Organizations

- Center for Undergraduate Research in Mathematics Mini-Grant in the Fall 2019
- Faculty Senate Member at Prairie View A & M University.
- Math 2024 Calculus with Analytic Geometry II Section Coordinator. My role was to create the syllabus, exams, and all assignments for the Calculus II sections. Fall 2017 - Spring 2022.
- August 2020 - May 2021 I completed the Effective Practice Framework course delivered by The Association of College and University Educators and the American Council on Education (ACUE).
- Spring 2022 I completed the Universal Design for Learning course delivered by our CIITS department at Prairie View A & M.
- Secretary of the AMS (American Mathematical Society), Graduate Student Chapter at UL Lafayette Fall 2016.
- Rhodes Outstanding Teacher Award 2013 - 2014.
- Undergraduate BioMath Program 2008 - 2009. This was an REU (Research Experience for Undergraduates) program based on an NSF grant at the University of Louisiana at Lafayette. Being in the program was part of a competitive selection.

Other Job Experience

- July 2001 - July 2006, United States Marine Corps
After high school I enlisted in the Marines. I joined because I wanted to travel, I knew that it would pay for college, and I thought it would be a good experience. After boot camp I went to avionics technician training. When this training was completed I was assigned to an EA-6B Prowler squadron. The EA-6B is an Electronic Countermeasures (ECM) jet. It seats four crew members; one pilot and three ECM officers. I worked on the ECM part of the avionics system. When the officers reported a technical problem we would troubleshoot the system to find out what was causing the problem and then repair it.

Most of the problems were caused by damaged wires or bad parts. After we were finish with the repairs we would test the system to make sure it was working properly.

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