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	Box 19408	
	Arlington, TX 76019-0408	

RESEARCH   Lie (super)algebras, representation theory, history of Black mathematicians

EDUCATION

The University of Texas at Arlington, Arlington, TX

Ph.D., Mathematics, *Expected:* May 2020

Thesis Topic: Infinite-dimensional tensor product representations of $\mathfrak{osp}(1|2n)$

Advisor: Dimitar Grantcharov

The Florida State University, Tallahassee, FL

M.S., Pure Mathematics, May 2014

Florida A&M University, Tallahassee, FL

B.S., Mathematics, April 2012

DISTINCTIONS

International Congress of Mathematicians Travel Grant American Mathematical Society	2018
Peer Mentor Award The University of Texas at Arlington Department of Mathematics	2018
Graduate Assistance in Areas of National Need (GAANN) Fellow The University of Texas at Arlington	2017 – present

TALKS

2020

1. "Basis of an infinite-dimensional tensor product representation   Jan
   of $\mathfrak{osp}(1|2n)$",
   The Joint Mathematics Meetings 2020, Denver, Colorado

2019

2. "Infinite-dimensional tensor product representations   Dec
   of $\mathfrak{osp}(1|2n)$ and $\mathfrak{gl}(2n)$",
   Algebra and Geometry Seminar, Iowa State University

3. "Bases of infinite-dimensional tensor product representations   Nov
   of $\mathfrak{osp}(1|2n)$",
   Representation Theory Seminar, Baylor University

4. "*Incompleteness theorem*: a graduating graduate student's   Oct
   hard-knocks lessons",
   Discussions in Algebra (DinA), The University of Texas at Arlington

5. "Basis of an infinite-dimensional tensor product representation   Oct
   of $\mathfrak{osp}(1|2n)$",
   Algebra Seminar, University of North Texas

6. "Super Black Magic",   Oct
   Graduate Algebra Symposium, Texas A&M University

7. "Infinite-dimensional tensor product representations   Aug
   of orthosymplectic Lie superalgebras",
   Comprehensive Exam, The University of Texas at Arlington

8. "*Keeping up with the signs*:
   examples of Lie superalgebras and their representations",   Mar
   Colloquium, Sam Houston State University

9. "*...a Noether one...*: the lives of Malone-Mayes, Mirzakhani, & Noether",   Mar
   AMS UTA Graduate Seminar, The University of Texas at Arlington

10. "Infinite-dimensional representations of $\mathfrak{osp}(1|2n)$",   Feb
    Southwest Local Algebra Meeting, The University of Texas at El Paso

2018

11. "Infinite-dimensional representations of $\mathfrak{osp}(1|2n)$",   Nov
    Blackwell-Tapia Conference, ICERM

12. "Tensor product representations of $\mathfrak{osp}(1|2n)$",   Nov
    Discussions in Algebra (DinA), The University of Texas at Arlington

13. "Angles of Andy... simple roots",   Apr
    Discussions in Algebra (DinA), The University of Texas at Arlington

14. "Gelfand-Tsetlin subalgebras",   Mar
    Discussions in Algebra (DinA), The University of Texas at Arlington

2017

15. "Supermathematics...",   Oct
    UNT UTA OU Algebra Symposium, University of Oklahoma

16. "Superalgebras"   Oct
    Discussions in Algebra (DinA), The University of Texas at Arlington

17. "Magmas, loops, and other not-quite groups",   Apr
    UNT UTA OU Algebra Symposium, The University of Texas at Arlington

18. "Solutions to Hungerford exercises on *Hom and Duality*"   Feb
    Discussions in Algebra (DinA), The University of Texas at Arlington

2016

19. "Survey of algebraic objects"   Oct
    Discussions in Algebra (DinA), The University of Texas at Arlington

2013

20. "A complex investigation of Pythagorean triples",   Nov
    Complex Analysis Seminar, The Florida State University

2011

21. "Cyclotomy and representation Theory",   Jul
    Iowa Summer Research Symposium, University of Iowa

Conferences, Seminars, Symposiums

Graduate Algebra Symposium XIV
>   Texas A&M University (October 2019)

NAM Undergraduate MATHFest XXIX
>   Southern University of New Orleans (September 2019)

Southwest Local Algebra Meeting
>   The University of Texas at El Paso (February 2019)

Blackwell-Tapia Conference 2018
>   ICERM (November 2018)

UNT UTA OU Algebra Symposium XII
>   The University of Texas at Arlington (October 2018)

NAM Undergraduate MATHFest XXVIII
>   Spelman College (September 2018)

Lie and Jordan Algebras, their Representations and Applications VIII
>   Satellite Conference ICM
>   Cusco, Peru (August 2018)

International Congress of Mathematicians
>   Rio de Janeiro, Brazil (August 2018)

Texas-Oklahoma Representations and Automorphic Forms (TORA) IX
>   University of Oklahoma (April 2018)

UNT UTA OU Algebra Symposium X
>   University of Oklahoma (October 2017)

Lie Algebras, Superalgebras, and Applications
>   AMS Fall Central Sectional Meeting
>   University of North Texas (September 2017)

UNT UTA OU Algebra Symposium IX
>   The University of Texas at Arlington (April 2017)

Algebra Seminar
>   University of North Texas (2017 - present)

UNT UTA OU Algebra Symposium VIII
>   University of North Texas (November 2016)

Discussions in Algebra (DinA)
>   The University of Texas at Arlington (2016 - present)

Schools, Trainings, Workshops

Southeastern Lie Theory Workshop XI:
>   "Geometric and Categorial Representation Theory"
>   Louisiana State University (May 2019)

Representation Theory, Combinatorics, and Geometry
>   University of Virginia (October 2018)

Common Misconceptions in Undergraduate Mathematics Classrooms
> Center for the Integration of Research, Teaching, and Learning
> The University of Texas at Arlington (Fall 2018)

Mathematics Education: Teaching Tips for Graduate Students
> Center for the Integration of Research, Teaching, and Learning
> The University of Texas at Arlington (Fall 2018)

2018 RTG Summer School "Lie Theory"
> University of Georgia (June 2018)

"Introduction to Git and GitHub"
> The University of Texas at Arlington (April 2018)

"ABCs of DMPs: Introduction to creating effective data management plans",
> The University of Texas at Arlington (March 2018)

"Introduction to Python",
> The University of Texas at Arlington (March 2018)

"Intro to Pivot - Funding",
> The University of Texas at Arlington (February 2018)

"Publishing Your First Article",
> The University of Texas at Arlington (February 2018)

"Shaping Your Academic Digital Identity",
> The University of Texas at Arlington (February 2018)

TEACHING

Instructor

Fall 2018 – Fall 2019

> Business Calculus - The University of Texas at Arlington
> Calculus III - The University of Texas at Arlington
> Linear Algebra (2 sections) - The University of Texas at Arlington

Summer 2017 – Fall 2017

> College Algebra (Pilot) - The University of Texas at Arlington
> Preparation for Calculus - The University of Texas at Arlington

Fall 2015 – Spring 2016

> Business Calculus (4 sections) - Florida A&M University
> Intermediate Algebra (2 sections) - Florida A&M University

Guest Lecturer

Fall 2018

> Number Theory - The University of Texas at Arlington

Fall 2017 – Spring 2018

> Abstract Algebra (Graduate) - The University of Texas at Arlington
> Contemporary Mathematics - The University of Texas at Arlington
> Number Theory - The University of Texas at Arlington

Teaching Assistant

Spring 2018

Preparation for Calculus (2 sections) - The University of Texas at Arlington

Fall 2016 – Spring 2017

Preparation for Calculus (4 sections) - The University of Texas at Arlington

Fall 2012 – Spring 2014

Analytic Trigonometry (11 sections) - The Florida State University
Calculus for Business (8 sections) - The Florida State University
College Algebra (11 sections) - The Florida State University
Precalculus Algebra (5 sections) - The Florida State University

Grader

Spring 2019

Linear Algebra - The University of Texas at Arlington

Spring 2018

Linear Algebra - The University of Texas at Arlington

Professional

Organizer
American Mathematical Society UTA Graduate Chapter

- Founding president and website creator
- Graduate Student Seminar

Visitors/Speakers

- Edray Goins, Professor, Purdue University (Currently: Pomona College)
- Mark Jackson, Mathematician, Raytheon
- Craig J. Sutton, Associate Professor, Dartmouth College

UNT UTA OU Algebra Symposium XII

- Co-organizer with organizers Rebekah Aduddell (primary) & Ian Lim

Discussions in Algebra (DinA)

- Scheduler of talks for DinA at The University of Texas at Arlington

Grad2Grad

- Coordinator of a peer-to-peer studying collaborative for linear algebra and analysis

Panelist/Moderator
National Association of Mathematicians

- NAM Undergraduate MATHFest XXIX, Southern University of New Orleans
- NAM Undergraduate MATHFest XXVIII, Spelman College

The University of Texas at Arlington Department of Mathematics

- GAANN Day 2018
- Gulf States Math Alliance Conference
- GAANN Day 2016

National Alliance for Doctoral Studies in the Mathematical Sciences

- Fifth Annual Mathematical Field of Dreams Conference, Arizona State University

Committee Member
Mathematics Faculty Search Committee

- Represented students in evaluating candidates for faculty positions in the Department of Mathematics at Florida A&M University

Community

K-12 Mentor
Mid-Cities Math Circle $(MC)^2$

- Promoter of problem solving and mathematical fun amongst youth

R. Frank Nims Middle School

- Created STEM lesson plans and taught 15 eighth graders on Saturday mornings

Local Volunteer
Dallas-Fort Worth Metroplex

- UT Arlington Calculus Bowl set-up crew member and pizza server
- Forth Worth Regional Science Fair safety inspector

Advisor and Undergraduate Mentor
Florida-Georgia Louis Stokes Alliance for Minority Participation

- Adapted program as a recognized student organization (RSO) at The Florida State University
- Mentored 30 undergraduates from underrepresented backgrounds in scientific fields

MEMBERSHIPS

American Mathematical Society (National and Graduate Student Chapters)

Association for Women in Mathematics

Benjamin Banneker Association, Inc.

College of Science Black Graduate Student Association

National Association of Mathematicians

SKILLS Computer software/languages
Past Projects: MATLAB, Maple, LaTeX, Excel, Access, APL, C

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Professor   Phone: 817-272-1148
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    Department of Mathematics   E-mail: kribs@uta.edu
    Department of Curriculum and Instruction
    The University of Texas at Arlington

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    Department of Mathematics   E-mail: agashe@math.fsu.edu
    The Florida State University

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    College of Science and Technology   E-mail: sonya.stephens@famu.edu
    Florida A&M University