

CONTACT	The University of Texas at Arlington Department of Mathematics 411 South Nedderman Drive Box 19408 Arlington, TX 76019-0408	Office: 817.272.3261 dwight.willams@uta.edu
RESEARCH	Lie (super)algebras and Gelfand-Tsetlin theory	
EDUCATION	<p>The University of Texas at Arlington, Arlington, TX</p> <p>Ph.D., Mathematics, <i>Expected</i>: May 2020</p> <p>Advisor: Dimitar Grantcharov</p> <p>The Florida State University, Tallahassee, FL</p> <p>M.S., Pure Mathematics, May 2014</p> <p>Florida A&M University, Tallahassee, FL</p> <p>B.S., Mathematics, April 2012</p>	
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	2018	
	1. “Infinite-dimensional representations of $\mathfrak{osp}(1 2n)$ ”, Blackwell Tapia Conference, ICERM	Nov
	2. “Tensor Product Representations of $\mathfrak{osp}(1 2n)$ ”, Discussions in Algebra (DinA), The University of Texas at Arlington	Nov
	3. “Angles of Andy... Simple Roots”, Discussions in Algebra (DinA), The University of Texas at Arlington	Apr
	4. “Gelfand-Tsetlin Subalgebras”, Discussions in Algebra (DinA), The University of Texas at Arlington	Mar
	2017	
	5. “Supermathematics...”, UNT UTA OU Algebra Symposium, University of Oklahoma	Oct
	6. “Superalgebras”, Discussions in Algebra (DinA), The University of Texas at Arlington	Oct
	7. “Magmas, Loops, and Other Not-quite Groups”, UNT UTA OU Algebra Symposium, The University of Texas at Arlington	Apr

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| 8. | “Solutions to Hungerford Exercises on Hom & Duality”
Discussions in Algebra (DinA), The University of Texas at Arlington | Feb |
| 2016 | | |
| 9. | “Survey of Algebraic Objects”
Discussions in Algebra (DinA), The University of Texas at Arlington | Oct |
| 2013 | | |
| 10. | “A Complex Investigation of Pythagorean Triples”,
Complex Analysis Seminar, The Florida State University | Nov |
| 2011 | | |
| 11. | “Cyclotomy and Representation Theory”,
Iowa Summer Research Symposium, University of Iowa | Jul |

ACTIVITIES

Conferences, Seminars, Symposiums

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

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

Linear Algebra - 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

Spring 2018

Graduate Abstract Algebra - The University of Texas at Arlington

Fall 2017

Number Theory - The University of Texas at Arlington
Contemporary Mathematics - 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

College Algebra (11 sections) - The Florida State University

Calculus for Business (8 sections) - The Florida State University

Precalculus Algebra (5 sections) - The Florida State University

Grader

Spring 2018

Linear Algebra - The University of Texas at Arlington

SERVICE

Professional

Organizer

American Mathematical Society Graduate Chapter

- President and founding member

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

National Association of Mathematicians

- 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 Chapter)

Association for Women in Mathematics (Student Chapter)

National Association of Mathematicians

SKILLS

Computer software/languages

Past Projects: MATLAB, Maple, L^AT_EX, Excel, Access, APL, C

REFERENCES

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