

CONTACT	Iowa State Univesity address in Fall 2020	<a href="mailto:dwright@mathdwight.com">dwight@mathdwight.com</a> <a href="http://mathdwight.com">mathdwight.com</a>
RESEARCH	<p><b>Theory of Mathematics</b> Lie superalgebras, super representation theory, Adinkras, connections between geometry and quantum groups and superalgebras and mathematical physics</p> <p><b>Community of Mathematicians</b> culture and practices of graduate mathematics programs, mathematicians within the African diaspora, equity in mathematics, historical mathematics, mentoring, tutoring, creativity and freedom through mathematics</p>	
EDUCATION	<p><b>The University of Texas at Arlington</b>, Arlington, TX Ph.D., <a href="#">Mathematics</a>, May 2020 <i>Bases of infinite-dimensional representations of orthosymplectic Lie superalgebras</i> Advisor: <a href="#">Dimitar Grantcharov</a></p> <p><b>The Florida State University</b>, Tallahassee, FL M.S., <a href="#">Pure Mathematics</a>, May 2014</p> <p><b>Florida A&amp;M University</b>, Tallahassee, FL B.S., <a href="#">Mathematics</a>, April 2012</p>	
EMPLOYMENT	Postdoctoral Research Associate ( <a href="#">ECR-EHR Core Research Grant</a> ) Iowa State University, Ames, Iowa Supervisor: <a href="#">Michael Young</a> Research Mentor: <a href="#">Jonas Hartwig</a>	2020 – 2022
DISTINCTIONS	<p><i>The University of Texas at Arlington</i> Graduate Assistance in Areas of National Need (GAANN) Fellow Outstanding GAANN Student, Department of Mathematics Peer Mentor Award, Department of Mathematics</p> <p><i>American Mathematical Society</i> Joint Mathematics Meetings Travel Grant International Congress of Mathematicians Travel Grant</p>	<p>2017 – 2020 2020 2018</p> <p>2019 2018</p>
MEDIA	<p>Research Publications</p> <ol style="list-style-type: none"> <li>(In preparation; Joint with <a href="#">D. Grantcharov</a>) <i>Bases of infinite-dimensional tensor product representations of <math>\mathfrak{osp}(1 2n)</math>.</i></li> </ol> <p>News and Education</p> <ol style="list-style-type: none"> <li>The International Congress of Mathematicians: A Math Conference for Everybody. (2018, Winter). <i>NAM Newsletter</i>. Retrieved from <a href="http://www.nam-math.org/include/pages/files/newsletters/2018%20Winter.pdf">http://www.nam-math.org/include/pages/files/newsletters/2018 Winter.pdf</a></li> <li>CPALMS Perspectives Videos (2015) <i>Carbon foam and geoemetry</i>. Available at: <a href="https://www.cpalms.org/Public/PreviewResourcePerspectivesVideo/Preview/128676">https://www.cpalms.org/Public/PreviewResourcePerspectivesVideo/Preview/128676</a></li> </ol>	

## TALKS

**Equity**

2020

1. *Fostering Equity in the STEM Classroom* Jun  
Led by Mathematics Enrichment for Diversity and Learning (Aris Winger)  
Governor's STEM Advisory Council, State of Iowa (Virtual)
2. *Black in Stem* focused on Black undergraduates of the Claremont Colleges Mar  
Hosted by Edray Goins, Pomona College
3. *Research and Graduate Programs*—one FAMU alumnus' POV Feb  
Kemetic Mathematical Society, Florida A&M University (Virtual)

2019

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

**Mathy**

2020

5. "*It looks like calculus*: Lie superalgebras acting on polynomials Mar  
in commuting and anti-commuting variables"  
Colloquium, California State Polytechnic University, Pomona
6. "Finding bases of new infinite dimensional representations of  $\mathfrak{osp}(1|2n)$ " Mar  
Algebra/Number Theory/Combinatorics Seminar, Claremont Colleges
7. "Basis of an infinite-dimensional tensor product representation Jan  
of  $\mathfrak{osp}(1|2n)$ ",  
The Joint Mathematics Meetings 2020, Denver, Colorado

2019

8. "Infinite-dimensional tensor product representations Dec  
of  $\mathfrak{osp}(1|2n)$  and  $\mathfrak{gl}(2n)$ ",  
Algebra and Geometry Seminar, Iowa State University
9. "Bases of infinite-dimensional tensor product representations Nov  
of  $\mathfrak{osp}(1|2n)$ ",  
Representation Theory Seminar, Baylor University
10. "*Incompleteness theorem*: a graduating graduate student's Oct  
hard-knocks lessons",  
Discussions in Algebra (DinA), The University of Texas at Arlington
11. "Basis of an infinite-dimensional tensor product representation Oct  
of  $\mathfrak{osp}(1|2n)$ ",  
Algebra Seminar, University of North Texas
12. "Super Black Magic", Oct  
Graduate Algebra Symposium, Texas A&M University

13. “Infinite-dimensional tensor product representations  
of orthosymplectic Lie superalgebras”,  
Comprehensive Exam, The University of Texas at Arlington Aug
  14. “*Keeping up with the signs:*  
examples of Lie superalgebras and their representations”,  
Colloquium, Sam Houston State University Mar
  15. “Infinite-dimensional representations of  $\mathfrak{osp}(1|2n)$ ”,  
Southwest Local Algebra Meeting, The University of Texas at El Paso Feb
- 2018
16. “Infinite-dimensional representations of  $\mathfrak{osp}(1|2n)$ ”,  
Blackwell-Tapia Conference, ICERM Nov
  17. “Tensor product representations of  $\mathfrak{osp}(1|2n)$ ”,  
Discussions in Algebra (DinA), The University of Texas at Arlington Nov
  18. “Angles of Andy... simple roots”,  
Discussions in Algebra (DinA), The University of Texas at Arlington Apr
  19. “Gelfand-Tsetlin subalgebras”,  
Discussions in Algebra (DinA), The University of Texas at Arlington Mar
- 2017
20. “Supermathematics...”,  
UNT UTA OU Algebra Symposium, University of Oklahoma Oct
  21. “Superalgebras”  
Discussions in Algebra (DinA), The University of Texas at Arlington Oct
  22. “Magmas, loops, and other not-quite groups”,  
UNT UTA OU Algebra Symposium, The University of Texas at Arlington Apr
  23. “Solutions to Hungerford exercises on *Hom and Duality*”  
Discussions in Algebra (DinA), The University of Texas at Arlington Feb
- 2016
24. “Survey of algebraic objects”  
Discussions in Algebra (DinA), The University of Texas at Arlington Oct
- 2013
25. “A complex investigation of Pythagorean triples”,  
Complex Analysis Seminar, The Florida State University Nov
- 2011
26. “Cyclotomy and representation Theory”,  
Iowa Summer Research Symposium, University of Iowa Jul

## Conferences, Seminars, Symposia

### Geometric Representation Theory

Perimeter Institute for Theoretical Physics (June 2020, virtual)

Twinned conference: Max Planck Institute

### Joint Mathematics Meetings 2020

AMS National Meeting (January 2020)

Denver, Colorado

### 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 Categorical 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 of Record

Summer 2017 – Fall 2017 & Fall 2018 – Spring 2020

Business Calculus - The University of Texas at Arlington

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

College Algebra (Pilot) - The University of Texas at Arlington

Linear Algebra (2 sections) - 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

Abstract Algebra (Graduate) - The University of Texas at Arlington  
Lie Algebras (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

Fall 2016 – Spring 2017 & Spring 2018

Preparation for Calculus (6 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 2018 & Spring 2019

Linear Algebra - The University of Texas at Arlington

## SERVICE

## Professional

### Organizer

*American Mathematical Society UTA Graduate Chapter*

- Founding president and website creator
- Graduate Student Seminar

*Visitors/Speakers*

- Mayowa Awe, Lockheed Martin
- Edray Goins, Purdue University (Currently: Pomona College)
- Mark Jackson, Raytheon
- Craig J. Sutton, Dartmouth College
- Talitha Washington, Howard University & National Science Foundation

*Discussions in Algebra (DinA)*

- Scheduled speakers for DinA at The University of Texas at Arlington

*Grad2Grad*

- Coordinated a peer-to-peer studying collaborative for graduate 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)<sup>2</sup>*

- Promoter of problem solving and mathematical fun amongst youth

*R. Frank Nims Middle School* (Tallahassee, FL)

- 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 (LSAMP)*

- 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

Active Projects:  $\text{\LaTeX}$

Past Projects: Access, APL, C, Excel, Maple, MATLAB, Maple,