
CONTACT	The University of Texas at Arlington Department of Mathematics Box 19408 1225 West Mitchell Arlington, TX 76019-0408	Office: 817.272.3261 dwight.williams@uta.edu
RESEARCH	Lie (super)algebras, representation theory, Gelfand-Tsetlin theory	
EDUCATION	The University of Texas at Arlington , Arlington, TX Ph.D., Mathematics, <i>Expected</i> : May 2020 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 Graduate Assistance in Areas of National Need (GAANN) Fellow The University of Texas at Arlington	2018 2017 – present
TALKS	2018 1. “Gelfand-Tsetlin Subalgebras”, Discussions in Algebra (DinA), The University of Texas at Arlington 2017 2. “Supermathematics...”, UNT UTA OU Algebra Symposium, University of Oklahoma 3. “Superalgebras” Discussions in Algebra (DinA), The University of Texas at Arlington 4. “Magmas, Loops, and Other Not-quite Groups”, UNT UTA OU Algebra Symposium, The University of Texas at Arlington 5. “Solutions to Hungerford Exercises on Hom & Duality” Discussions in Algebra (DinA), The University of Texas at Arlington 2016 6. “Survey of Algebraic Objects” Discussions in Algebra (DinA), The University of Texas at Arlington 2013 7. “A Complex Investigation of Pythagorean Triples”, Complex Analysis Seminar, The Florida State University 2011 8. “Cyclotomy and Representation Theory”, Iowa Summer Research Symposium, University of Iowa	

ACTIVITIES

Conferences, Symposiums, Talks

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 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)

Discussion in Algebra (DinA)

The University of Texas at Arlington (2016 - present)

Schools, Trainings, Workshops

“ABCs of DMPs: Introduction to creating effective data management plans”,

University of Texas at Arlington (March 2018)

“Introduction to Python”,

University of Texas at Arlington (March 2018)

“Intro to Pivot - Funding”,

University of Texas at Arlington (February 2018)

“Publishing Your First Article”,

University of Texas at Arlington (February 2018)

“Shaping Your Academic Digital Identity”,

University of Texas at Arlington (February 2018)

MEMBERSHIPS

American Mathematical Society

Association for Women in Mathematics (Student Chapter)

TEACHING

Instructor

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

Discussions in Algebra (DinA) 2017 – present

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

Grad2Grad

2017

- Coordinator of a peer-to-peer studying collaborative for Linear Algebra and Analysis courses

Panelist

National Alliance for Doctoral Studies in the Mathematical Sciences

- “FGAP Program”, Gulf States Math Alliance Conference, The University of Texas at Arlington. (February 2017)
- “Fields of Summer Programs”, Fifth Annual Mathematical Field of Dreams Conference, Arizona State University. (October 2011)

Committee Member

Mathematics Faculty Search Committee

2012

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

Community

K-12 Mentor

2016 – present

Mid-Cities Math Circle (MC)²

- Promoter of problem solving and mathematical fun amongst youth

R. Frank Nims Middle School

2011-2012

- Mathematics and Science Tutorial Enhancement Program
- Created STEM lesson plans and taught 15 eighth graders on Saturday mornings

Local Volunteer

Dallas-Fort Worth Metroplex

2016 – present

- UT Arlington Calculus Bowl set-up crew member and pizza server
- Forth Worth Regional Science Fair safety inspector (2017)

Advisor and Undergraduate Mentor

Florida-Georgia Louis Stokes Alliance for Minority Participation

2012 – 2016

- Guided formation of the program as a recognized student organization (RSO) at The Florida State University
- Mentored 30 undergraduates from underrepresented backgrounds in scientific fields
- Developed and led monthly meetings to improve the likelihood of students advancing to graduate school

SKILLS

Computer software/languages

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

REFERENCES

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