

ORCID: [0000-0003-2611-2388](#)  
arXiv: [arxiv.org/a/williams\\_d\\_5.html](#)  
Website: [www.mathdwight.com](#)  
Email: [Dwight.WilliamsII@morgan.edu](mailto:Dwight.WilliamsII@morgan.edu)

Department of Mathematics  
Morgan State University  
1700 E Cold Spring Lane,  
Baltimore, MD 21251

Professional Appointments

- 2023-curr **Assistant Professor**, Morgan State University.
- 2022-2023 **Visiting Assitant Professor**, Pomona College.
- 2022-2022 **Facilitator**, Charles A. Dana Center (Math Leaders 4 Racial Justice).
- 2020-2021 **Postdoc Research Associate**, Iowa State University. Supervisor: Michael Young.
- 2021-2021 **Postdoctoral Research Advisor**, Mathematical Sciences Research Institute (MSRI-UP). Supervisors: Rebecca E. Garcia & Pamela E. Harris.
- 2016-2020 **Graduate Teaching Assistant**, The University of Texas at Arlington.

Education

- 2016-2020 **PhD in Mathematics**, The University of Texas at Arlington. Advisor: Dimitar Grantcharov.
- 2012-2014 **MS in Pure Mathematics**, The Florida State University.
- 2008-2012 **BS in Mathematics**, Florida A&M University.

Research Highlights

Co-author names: **pre-baccalaureate/pre-doctoral** by date of submission

In Mathematics

- 2023 **Interval and  $\ell$ -interval Rational Parking Functions** (Manuscript).  
arXiv: [2311.14055](#).  
*Aguilar-Fraga, T*; Elder, J; Garcia, RE; *Hadaway, KP*; Harris, PE; *Harry, KJ*; Hogan, IB; *Johnson, J*; Kretschmann, J; *Lawson-Chavanu, K*; Martínez Mori, JC; *Monroe, CD*; Quiñonez, D; *Tolson III, D*
- 2023 **On parking functions and the Tower of Hanoi**.  
American Mathematical Monthly. DOI: [10.1080/00029890.2023.2206311](#).  
**Aguillon, Y**; **Alvarenga, D**; Harris, PE; **Kotapati, S**; *Martínez Mori, JC*; *Monroe, CD*; **Saylor, Z**; **Tieu, C**; Williams II, DA.
- 2023 **Ghost center and representations of the diagonal reduction algebra of  $\mathfrak{osp}(1|2)$** .  
Journal of Geometry and Physics. DOI: [10.1016/j.geomphys.2023.104788](#).  
Hartwig, JT; Williams II, DA.
- 2022 **Diagonal reduction algebra for  $\mathfrak{osp}(1|2)$** .  
Theoretical and Mathematical Physics. DOI: [10.1134/S0040577922020015](#) (English) DOI: [10.4213/tmf10138](#) (Russian)  
Hartwig, JT; Williams II, DA.

In Education

- 2021 **Informing Change: Stories of Graduate Students from Underrepresented Groups in Mathematics Doctoral Programs**.  
Association for the Study of Higher Education 46<sup>th</sup> General Conference. [Program book](#)  
Westine, C; Sword, S; Young, M; *Bartel, M*; Williams II, DA; Harris, PE.
- 2021 **Studying Successful Doctoral Students in Mathematics from Underrepresented Groups**.  
Accelerating Systemic Change Network (ASCN) & Network of STEM Education Centers (NSEC) Transforming Institutions Conference 2021. [Poster webpage](#)  
Sword, S; Young, M; Westine, C; Winger, A; *Bartel, M*; Williams II, DA; *McRoberts, C*; Sisneros-Thiry, S; Gates, M; Harris, PE.

# Exposition

2022 **People Over Math: A Co-created Principle for Successful Research Communities.**  
MAA FOCUS. [Digital edition](#)  
Garcia, RE; Harris, PE; Williams II, DA; *Martínez Mori, JC*; *Monroe, CD*; **Aguilar-Fraga, T**; **Aguillon, Y**; **Alofamoni Quiñonez, D**; **Alvarenga, D**; **Celestine, A**; **Gill, P**; **Hogan, IB**; **Johnson, J**; **Lawson-Chavanu, K**; **Liu, L**; **Ortiz, A**; **Quesada, L**; **Rivera Sánchez, CM**; **Soto, C**; **Tieu, C**; **Tolson III, D**; **van der Leeuw, J**; **Vargas, P**.

# Instructor of Record

## Morgan State University

**Graduate:** MATH 505 Abstract Algebra I, MATH 506 Abstract Algebra II.  
**Undergraduate:** MATH 413 Algebraic Structures, MATH 431 Mathematical Theory of Statistics, MATH 432 Mathematical Theory of Statistics II.

## Pomona College

**Undergraduate:** MATH PO 032 Calculs III, MATH 101 PO Introduction to Analysis, MATH 171 PO Abstract Algebra I: Groups & Rings

## The University of Texas at Arlington

**Undergraduate:** MATH 1302 College Algebra, MATH 1316 Mathematics for Economics and Business Analysis, MATH 1421 Preparation for Calculus, MATH 2326 Calculus III, MATH 3330 Introduction to Matrics & Linear Algebra

# Advising

## Undergrad

- 2024-curr . Twymun Safford, Morgan State University. MANIM.
- 2024-curr . Angeluis Sayavongsa-Vaughn, Morgan State University. MANIM.
- 2023-2023 Irmak Bukey, Pomona College. MANIM (reduction algebras).
- 2023-2023 Gisele Umutoni, Pomona College. MANIM (trees and proofs).
- 2022-2023 Irmak Bukey, Pomona College. Senior Thesis: Reduction Algebras: Verifying Solutions to Laplace’s Equation.
- 2022-2023 Andrew Shannon, Pomona College. Senior Theis: The Diffie-Hellman Problem in Lie Algebras Revisited.
- 2021-2021 Aaron Ortiz, Mathematical Sciences Research Institute (MSRI-UP). Research Report: The defective parking space.
- 2021-2021 Lauren J. Quesada, Mathematical Sciences Research Institute (MSRI-UP). Research Report: The defective parking space.
- 2021-2021 Cynthia Marie Rivera Sánchez, Mathematical Sciences Research Institute (MSRI-UP). Research Report: The defective parking space.
- 2021-2021 Tomás Aguilar-Fraga, Mathematical Sciences Research Institute (MSRI-UP). Research Report:  $\ell$ -Interval parking functions.
- 2021-2021 Kobe Lawson-Chavanu, Mathematical Sciences Research Institute (MSRI-UP). Research Report:  $\ell$ -Interval parking functions.
- 2021-2021 Dirk Tolson III, Mathematical Sciences Research Institute (MSRI-UP). Research Report:  $\ell$ -Interval parking functions.

# Organizing Currently

- 2024 [Fresh Researchers in Algebra, Combinatorics, and Topology Active Learning Seminar](#).
- 2024 [AMS Spring Eastern Sectional \(Howard University\) Special Session](#)