

# Dwight Anderson Williams II, PhD (he/his)

Curriculum Vitæ Summary  
Extended Curriculum Vitæ  
homepage

arXiv: [arxiv.org/a/williams\\_d\\_5.html](https://arxiv.org/a/williams_d_5.html)

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Department of Mathematics  
Morgan State University

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Baltimore, MD 21251

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## Professional Appointments

- 2023–curr **Assistant Professor**, Morgan State University.
- 2022–2023 **Visiting Assistant 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 Undergraduate Program. 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: alphabetical in mathematics; **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; Williams II, DA.*
- 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](#) (for Russian version)  
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

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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

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Morgan State University

[Graduate](#): MATH 505 Abstract Algebra I, MATH 506 Abstract Algebra II.  
[Undergraduate](#): MATH 413 Algebraic Structures I, MATH 431 Mathematical Theory of Statistics, MATH 432 Mathematical Theory of Statistics II.

Pomona College

[Undergraduate](#): MATH PO 032 Calculus 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 Matrices & Linear Algebra.

Advising

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Undergrad

2024–curr Twymun Safford, Angeluis Sayavongsa-Vaughn. Morgan State University. MANIM.  
2023–2023 Irmak Bukey, Gisele Umutoni. Pomona College. MANIM (reduction algebras, trees, 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, Lauren J. Quesada, Cynthia Marie Rivera Sánchez. Mathematical Sciences Research Institute Undergraduate Program. Research Report: The defective parking space.  
2021–2021 Tomás Aguilar-Fraga, Kobe Lawson-Chavanu, Dirk Tolson III. Mathematical Sciences Research Institute Undergraduate Program. Research Report:  $\ell$ -Interval parking functions.

Sample of Service

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Member	American Mathematical Society, Mathematical Association of America, National Association of Mathematicians.
Organizer	<a href="#">Fresh Researchers in Algebra, Combinatorics, and Topology Active Learning Seminar</a> , <a href="#">AMS Spring Eastern Sectional (Howard University) Special Session</a> .
Referee	Communications in Algebra.