

Dwight Anderson Williams II, PhD (he/his)

Curriculum Vitæ Summary

Extended Curriculum Vitæ
homepage

arXiv: arxiv.org/a/williams_d_5.html

GitHub: [mathdwight](#)

ORCID: [0000-0003-2611-2388](#)

Google: [Scholar](#)

Zotero: [mathdwight](#)

Department of Mathematics

Morgan State University

1700 E Cold Spring Lane,

Baltimore, MD 21251

Dwight.WilliamsII@morgan.edu

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 ℓ -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 46th 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 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

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: ℓ -Interval parking functions.

Sample of Service

Committee	Actuarial Science (Department-special), Graduate Comprehensive Exam (Department-standing), Graduate Curriculum (Department-standing).
Membership	American Mathematical Society, Mathematical Association of America, National Association of Mathematicians.
Organizer	Fresh Researchers in Algebra, Combinatorics, and Topology Active Learning Seminar , AMS Spring Eastern Sectional (Howard University) Special Session .
Referee	Communications in Algebra.