	<ul> <li>B.A. in Mathematics</li> <li>Relevant coursework: Abstract Algebra (Abstract Algebra II taken throu Emory), Number Theory, Real Analysis, Math Stats and Probability, Multiva Algebra</li> <li>Honors: <i>summa cum laude</i> (GPA: 3.95/4.00), Phi Beta Kappa, Founder's Hopkins Music Scholarship, Scottie Alumnae Grant</li> </ul>	riable Calculus, Linear	
	<ul> <li>Budapest Semesters in Mathematics, Budapest, Hungary</li> <li>Study Abroad program</li> <li>Relevant coursework: Theory of Computing, Topology, Quantum Infor Computation, Combinatorics (audit)</li> </ul>	Sep 2016 – Dec 2016 rmation and Quantum	
RESEARCH EXPERIENCE	<ul> <li>Undergraduate research, Agnes Scott College</li> <li>Undergraduate Research Student, Department of Mathematics</li> <li>Project: Classification of braces</li> <li>Supervisor: Prof. Alan Koch</li> <li>Collaborated with research team of two undergraduate students and one profes of braces, a mathematical structure relevant to Galois theory and Hopf algebra</li> </ul>		
	<ul> <li>2017 Mathematics REU Program at Iowa State University, Iowa State University Undergraduate Research Student, Department of Mathematics</li> <li>Project: Inverse eigenvalue problem for small graphs</li> <li>Supervisors: Prof. Steve Butler and Prof. Leslie Hogben</li> <li>Collaborated with research team of two professors, two graduate students, students on problem regarding combinatorics, graph theory, and linear algebra</li> </ul>	Jun 2017 – Jul 2017 and six undergraduate	
	<ul> <li>Undergraduate research, Agnes Scott College</li> <li>Undergraduate Research Student, Department of Mathematics</li> <li>Project: An examination of the cyclic nature of last digits in recurrence relation</li> <li>Supervisor: Prof. Alan Koch</li> <li>Collaborated with research team of two to three undergraduate students and one in recurrence relations</li> </ul>		
	<ul> <li>Goizueta Foundation STEM Scholars Program, Agnes Scott College Undergraduate Research Student, Department of Mathematics</li> <li>Project: Measuring Chaos: Explorations in Dynamical Systems</li> <li>Supervisor: Prof. Rachel Rossetti</li> <li>Collaborated with research team on problem regarding a dynamical system</li> </ul>	Jun 2016 – Jul 2016	
PUBLICATIONS	J. Ahn, C. Alar, B. Bjorkman, S. Butler, J. Carlson, A. Goodnight, H. Knox, C. Monroe, and M. C. Wigal. Ordered multiplicity inverse eigenvalue problem for graphs on six vertices. ArXiv e-prints, August 2017. (Submitted)		
	A. Goodnight and K. McCrary. Cyclic Dynamical Systems, Proceedings of the Harriett J. Walton Symposium on Undergraduate Mathematics Research, Volume 15, June 2017, 7-18.		
PRESENTATIONS	Oral Presentations Agnes Scott College Spring Annual Research Conference, Atlanta GA • Braces and the Yang-Baxter Equation Nebraska Conference for Undergraduate Women in Mathematics, Lincoln NE • Braces and their Opposites	Apr 2019 Jan 2019	

## Agnes Scott College, Decatur, Georgia, USA B.A. in Mathematics

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Agnes Scott College Spring Annual Research Conference, Atlanta GA	Apr 2019
<ul> <li>Braces and the Yang-Baxter Equation</li> </ul>	
Nebraska Conference for Undergraduate Women in Mathematics, Lincoln NE	Jan 2019
<ul> <li>Braces and their Opposites</li> </ul>	
Agnes Scott College Spring Annual Research Conference, Atlanta GA	Apr 2018
<ul> <li>Sink Your Teeth into Algebra: Left Braces on 2p Elements!</li> </ul>	

• Inverse Eigenvalue Problem for Graphs on Six Vertices

## **Audrey Goodnight**

Minneapolis MN • audrey.goodnight@gmail.com • (612) 226-5260 audreygoodnight.com • linkedin.com/in/audrey-goodnight/

	<ul> <li>Agnes Scott College Spring Annual Research Conference, Atlanta GA</li> <li>Finite Dynamical Systems on the Circle</li> <li>An Examination of the Cyclic Nature of Last Digits in Recurrence Relations Harriet J. Walton Symposium on Undergraduate Mathematics Research, Atlanta G</li> <li>Finite Dynamical Systems on the Circle</li> </ul>	Apr 2017 A Apr 2017
	<ul> <li>Finite Dynamical Systems on the Circle</li> <li><i>Goizueta Foundation STEM Scholars Program research presentation</i>, Atlanta GA</li> <li>Finite Dynamical Systems on the Circle</li> </ul>	Jul 2016
	<ul> <li>Poster Presentations</li> <li>Joint Mathematics Meeting, San Diego, CA <ul> <li>Ordered Multiplicity Inverse Eigenvalue Problem for Graphs on Six Vertices</li> </ul> </li> <li>International Linear Algebra Society meeting, Ames, IA <ul> <li>Ordered Multiplicity Inverse Eigenvalue Problem for Graphs on Six Vertices</li> </ul> </li> </ul>	Jul 2017
TEACHING EXPERIENCE	<ul> <li>Minnesota Math Corps, Hmong International Academy, Minneapolis, MN <i>Math Tutor (Full time)</i></li> <li>Implement evidence-based mathematics interventions with grades 5-8</li> <li>Conduct weekly tutoring sessions with 25 students, mostly in pairs</li> <li>Measure student progress by collecting data on an ongoing basis.</li> </ul>	Sep 2019 – Present
	<ul> <li>Private Tutoring, Decatur, GA</li> <li>Math Tutor</li> <li>Tutor high school aged students in calculus</li> <li>Tutor middle school aged students in geometry</li> </ul>	Jan 2018 – May 2019
	<ul> <li>Resource Center for Math and Science, Agnes Scott College Math Learning Assistant</li> <li>Tutor students of Agnes Scott College in mathematics, helping them understan problems on their own</li> <li>Lead workshops in calculus demonstrating a variety of techniques</li> </ul>	Aug 2017 – May 2019 nd how to do homework
HONORS AND AWARDS	<ul> <li>Wilson Asbury Higgs Scholarship, Agnes Scott College Scholarship Recipient</li> <li>Scholarship awarded to one senior annually by the mathematics department based on merit</li> </ul>	Aug 2018 – May 2019 at Agnes Scott College
	<ul> <li>Barry Goldwater Scholarship Program</li> <li>Honorable Mention</li> <li>National scholarship program that identifies and supports emerging research sciences, engineering and mathematics</li> </ul>	Mar 2018 h leaders in the natural
CAMPUS INVOLVEMENT	<ul> <li>Legacy, Agnes Scott College</li> <li>Legacy Leader</li> <li>Oriented 25 new students to Agnes Scott College's SUMMIT curriculus facilitating workshops on leadership on campus and at the Center for Civil and a student of the context of th</li></ul>	
	<ul> <li>ASCEND!, Agnes Scott College</li> <li>Treasurer</li> <li>Manage finances for Agnes Scott College's general body LGBTQA group</li> </ul>	Aug 2018- May 2019
	<ul> <li>Omicron Delta Kappa, Agnes Scott College</li> <li>Secretary</li> <li>Participate in service projects and meetings on professional development</li> </ul>	Nov 2017- May 2019
	<ul> <li>Association for Women in Mathematics, Agnes Scott College</li> <li>Secretary <ul> <li>Assist in organizing events with Agnes Scott College's chapter of the AWM, i social opportunities</li> </ul> </li> </ul>	Aug 2017 – May 2019 ncluding math talks and
	Her Campus, Agnes Scott College Author	Jan 2017 – May 2019

	• Write articles twice a month on a variety of topics relevant to college-aged students		
	<ul><li>Blackfriars, Agnes Scott College</li><li><i>Actor</i></li><li>Act in plays for audiences of varying ages, with casts of four to seven people</li></ul>	Jan 2016 – May 2019	
	<ul><li>Global Awareness Program to the Dominican Republic, Agnes Scott College <i>Student</i></li><li>Studied the effects of globalization on health of Haitian migrants in the Dom</li></ul>	Mar 2016 inican Republic	
	<ul> <li>ASC Community Orchestra, Agnes Scott College</li> <li><i>Clarinetist</i></li> <li>Perform clarinet parts in concerts once per semester</li> </ul>	Aug 2015 – May 2019	
	<ul> <li>Generating Excelence in Math and Science (GEMS), Agnes Scott College <i>Member</i></li> <li>Lived on the GEMS floor for a semester, meet 2 times a semester for workshop fields</li> </ul>	Aug 2015 – May 2019 os on excelling in STEM	
LANGUAGES	English: Native language. Spanish: Intermediate (speaking, reading, writing). Norwegian: Basic (speaking, reading, writing).		
SKILLS	Python, LATEX, POV-Ray (C++), HTML, JavaScript, Mathematica		
PROFESSIONAL AFFILIATIONS	Association for Women in Mathematics (AWM) Mathematical Association of America (MAA)		