Micah Henson

Education

EDUCATION	
University of Washington, Seattle, WA	
PhD in Applied Mathematics	Expected June 2022
University of Washington, Seattle, WA	
Master of Science in Applied Mathematics	June 2019
Spelman College, Atlanta, GA	
Bachelor of Science summa cum laude in Mathematics,	May 2017
Top Ten Graduate	
Skills	
• Proficient with: Matlab	
 Competent using: Python, in particular, NumPy and PyTorch 	
• Familiar with: R, SQL	
 Computational Methods: Numerical Linear Algebra, Applied Complex Analysis, Adv Partial Differential Equations, Machine Learning, Boundary Value and Time Dependent Control, Dynamical Systems 	
Work Experience	
University of Washington, Seattle, WA	June 2017-
Teaching Associate , Department of Applied Mathematics	
• Hold twice weekly office hours and grade assignments for 60-80 students per quarter in <i>Pre-Doctoral Instructor</i> , UW STEM Upward Bound	a variety of applied math courses
Co-Instructor for Machine Learning and Statistics	
• Designed interactive lectures and activities to explain high level concepts to high school	
EDGE for Women, Virtual	June 2020 - July 2020
Mentor	
• Led problem sessions and held office hours for women entering PhD programs in the summer 2020 program	mathematical sciences during the
 Delivered weekly progress reports to program advisors 	
Spelman College, Atlanta, GA	Jan 2015 - May 2017
Directed Supplementary Instructor , Mathematics and Physics	
• Developed lesson plans and provided additional instruction for undergraduate students in SELECTED PRESENTATIONS	physics and calculus
The Sandpile Group of Thick Cycle Graphs. MAA Undergraduate Student Poster Session, Joint Math Meetings, Atlanta,	
GA, January 2017	
The Sandpile Group of Thick Cycle Graphs. National Diversity in STEM Conferen	ca SACNAS Long Beach CA
October 2016	ce, SACNAS, Long Beach, CA,
Selected Research	
University of Washington, Sept 2018-	
• Using optimal control and differential game theory to maximize happiness in marriage	
• Independently creating and implementing programs in Matlab that solve dynamical systems given parameters from data	
• Compose quarterly progress reports for advisors Mathematical Sciences Research Institute Undergraduate Program, June - July 2016	
 Collaborated with other undergraduates to determine an explicit formula for a type of 	non regular multi family graphs
collaborated with other undergraduates to determine an explicit formula for a type of called thick cycle graphs	non-regular, muni-ranniy graphs
 Presented weekly progress reports to project advisors and Principal Investigator 	
 Composed and submitted paper for publication in a mathematics journal 	
University of Glasgow, May - July 2015	
 Modeled the mechanics of heavy ropes and chains by studying the N-pendulum using La 	grangian mechanics
 Created and implemented programs in Matlab to produce simulations 	grangian meenames
Awards	
• ARCS Fellow, 2017-2020	
 Boeing Fellow, 2017-2018 	
 AMS EDGE Fellow, 2017 	
 Outstanding Poster in the MAA Student Poster Session, 2017 	
Service and Leadership	
• UW AMath Diversity Committee member, 2019-2020	

- UW AMath Diversity Committee member, 2019-2020 WAMM Mentor for undergraduate women, 2019 ٠
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- Treasurer of UW Chapter of SIAM, 2018-2019 •
- Founding Co-President, AWM Math Club Student Chapter, Spelman College, 2016-2017 •