Césarine Graham (formally Césarine Aylsworth)

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EDUCATION	Michigan State University Bachelor of Science, Astrophysics Minor in Mathematics	Expected Graduation: May 2024 GPA: 3.94
	Denbigh High School and Aviation Academy Advanced Diploma with Honors Distinction	Sep 2016 - June 2020 GPA: 4.47
WORK EXPERIENCE	Astrobiology Research Assistant Michigan State University Research assistant for Dr. Matthew Schrenk regarding Astrobiology. Integrating physics, mathematics, and computer science to model more	Aug 2022 - Present
	accurate microbial habitability charts. MSU Summer Topology Internship Michigan State University Paired with a graduate student mentor to do an independent study project learning about a mathematical topic in the field of topology. Presenting mathematical research in various methods and producing review	May 2023 – June 2023
	articles that connect Topology to Theoretical Physics Mathematics and Physics Teaching Assistant Michigan State University Teaching assistant for College Algebra II and Physics I.	Aug 2022 – Present
	 Leading in-class activities, tutoring during office hours, and grading assignments for all sections of College Algebra II and for some Physics I. Academic Tutor Denbigh High School Embry-Riddle Aeronautical University Mathematics tutor for Pre-Algebra to Calculus II at Denbigh HS Physics tutor for Physics I-III at Embry-Riddle Aeronautical University. 	Oct 2016 - May 2022
ACADEMIC EXPERIENCE	Carnegie Mellon University AI Workshop • Learning and engaging in open-end discussion about responsible AI in the	May 2023
	field of Natural Sciences. Machine Learning with Python edX Certification • Course certification earned online via edX about applied machine learning	April 2023
	with foundational and historical context. Astronomy on Tap Public Outreach Interacting with the public and giving talks regarding various science topics	Aug 2022 - Present
	during the monthly meetings. NASA HUNCH Organization Member and co-organizer of the HUNCH program at Denbigh's Aviation Academy. The team successfully manufactured storage lockers for the International Space Station (https://bit.ly/33avSwg).	Sep 2018 - Present
SKILLS	Programming Software: Java, CSS, HTML, MATLAB, Python, some R Engineering Software: CATIA, AutoDesk Inventor Languages: Spanish (Conversational)	
LEADERSHIP/ VOLUNTEERING	Society for Hydroponic and Aquaponic Systems, Lead Researcher, 2020-2022 ERAU Honors Program STEAM Derbyshire Camp, 2020-2022 Air Force Reserve Officer Training Corps, 2020-2022 Disabled American Veterans, 2016-2020	
AWARDS	MSU Dean's Research Scholar, Spring 2023 MSU Dean's List: Fall 2022, Spring 2023 ERAU Dean's List: Fall 2020, Spring 2021, Fall 2021, Spring 2022 ERAU Presidential Scholarship, Women of Excellence Scholarship: 2020-2022 Display American Veteron's Contificate of Community Services 2017, 2020	

Disabled American Veteran's Certificate of Community Service: 2017-2020

DHS Science Fair City, District, and State First Place: 2016-2020