Eliana Stilson

Education	Anticipated 2025	University of Arizona	Tucson, Arizo	ona					
	•	Sciences and Engineering							
	 3.85 cumulative GPA Passionate about exploring the intersection of physics and engineering to create innovativ optical solutions. Completed classes include Calculus 1,2, & 3, Solid State Chemistry, Geometrical Instrumental Optics I & 2, Basic Circuits, and Physics Optics 1. Current classes include Radiometry, Sources and detectors, Semiconductor Physics Lasers, and Mathematical Analysis for Engineers. 								
					Professional	Undergraduate Res	search Assistant in BOOM	Laboratory	
					Experience	08/2022 – current	University of Arizona		Tucson, Arizon
						Under Dr. Travis Sa	awyer in the Biomedical Optics	& Optical Measurem	-
 Conducting research on the adverse effects of Formaldehyde fixation on endogenou fluorophores autofluorescence intensities. 									
 Responsible for investigation of the decay rate in endogenous fluorophores autofluorescence over time due to Formaldehyde fixation. 									
 Ability to operate Multispectral Imaging System and experienced using Image J software. 									
Undergraduate Research Assistant in the Institute für Technische Optik									
06/2023 – 08/2023	University of Stuttgart		Stuttgart, Germar						
 Designed a magnetically actuated objective doublet lens using software methods of Zema and SolidWorks. 									
 Responsible for designing and simulating the lens system by optimizing the lens geometry minimizing aberrations, and maximizing the system's efficiency. 									
Outreach Chair – S	tudent Optics Chapter Clu	b							
01/2023 – current	The Wyant College of Optica	al Sciences	Tucson, Arizon						
 Excite people about optics, educate the younger generation, and encourage students to joi the Wyant College of Optical Sciences. 									
 Arrange and organize outreach events; create high school/ middle school presentations, liv demos, and Laser Fun Day. 									
Knowledge and Skills	 Technical Computing: 3D printing, MATLAB, Solid Works, and Image J. 								
	 Optical Laboratory Skills: Cleaning of optical elements, proper handling of equipment, lase safety, data reduction analysis, and measurement scales. 								
	 Experience with Office Software: MS Excel, Word, Powerpoint, etc. Communication and Team Building: Trained and educated by graduate students i Biomedical Optics and Optical Measurement Laboratory. 								
Honors and Awards	 Eustace L. Derek Family and Friends Endowed Scholarship in Optical Sciences – May 202 Dean's List with Distinction – May 2023. Wildcat Recognition Award – September 2020. 								