

Teaching	
<p><b>Courses taught while at Auburn:</b></p> <ul style="list-style-type: none"> <li>• PHYS 1607 Honors' Physics 1 (2x)</li> <li>• PHYS 3500 Astrobiology (new; 2x)</li> <li>• PHYS 5100/6100 Applications of Quantum Mechanics (new; 3x)</li> <li>• PHYS 6500 Computational Physics</li> <li>• PHYS 7900 Introduction to Auburn Research (2x)</li> <li>• PHYS 7950 Colloquium (2x)</li> </ul> <p><b>Teaching awards:</b> Auburn University Soc. Physics Students teaching award</p>	<p><b>Postdoctoral mentoring while at Auburn:</b></p> <ul style="list-style-type: none"> <li>• 1 Completed, 4 in progress</li> </ul> <p><b>PhD/MSc Advising while at Auburn:</b></p> <ul style="list-style-type: none"> <li>• Completed: 7 as Committee Member</li> <li>• In progress: 2 as Chair, 4 as Committee Member</li> <li>• 5 external to AU, of which 4 international</li> </ul> <p><b>Undergraduate advisor at Auburn:</b></p> <ul style="list-style-type: none"> <li>• COMP 4710 (Sr. Design Project)</li> <li>• 4 undergraduate research projects</li> <li>• 2021 Research Fellowship supervisor for Johannes Allen and Rachel Fulda</li> </ul>
Research	
<p><b>Research Area:</b></p> <ul style="list-style-type: none"> <li>• Laboratory astrophysics and observational astronomy of comets</li> <li>• Active collaboration with internal, national, and international partners and laboratories</li> </ul> <p><b>Publications and conferences (in career):</b></p> <ul style="list-style-type: none"> <li>• 144 published refereed papers</li> <li>• Lead/2<sup>nd</sup>/PI of 37 refereed papers</li> <li>• 7309 total citations, h-index = 42, i10-index = 111 (<a href="#">Google scholar</a>)</li> <li>• Over 100 presentations at domestic and international meetings</li> </ul>	<p><b>Research Grants while at Auburn:</b></p> <ul style="list-style-type: none"> <li>• Funding as Auburn PI for PT considerations: <b>\$2.1M</b></li> <li>• Career funding as PI: <b>\$4.1M</b></li> <li>• Career funding as co-PI or Co-I: <b>\$573k</b></li> <li>• Extramural sources: NASA, HST, Chandra, Swift, ISS/NICER, ESPSCOR, JWST, Europlanet</li> <li>• Intramural sources: Office of the VPR, COSAM, Provost</li> <li>• Awarded competitive observing time on multiple orbital telescopes (HST, Chandra, Swift, ISS/NICER, XMM-Newton)</li> </ul>
Service and Outreach	
<p><b>Service and Outreach at Auburn:</b></p> <ul style="list-style-type: none"> <li>• 2018 – 2022 Physics Dept. Graduate student recruitment committee</li> <li>• 2020 Speaker COSAM Campfire event</li> <li>• 2019 Local organizing committee of South-East Laboratory Astronomy conference</li> <li>• Science Olympiad, Planetary Science Lead (2x)</li> <li>• 2019 Speaker Duncan Lecture 'Water in our Solar System'</li> </ul> <p><b>Grant proposal reviewer for:</b> Multiple NASA programs (chair and panelist), Hubble Space Telescope, NASA Postdoctoral Fellowship Program.</p>	<p><b>Journal reviewer for:</b> Nature, Nature Astronomy, Astronomical Journal, Astrophysical Journal, Icarus, Astronomy &amp; Astrophysics, Earth, Moon &amp; Planets, Physical Review A, Planetary &amp; Space Science, Monthly Notices of the Royal Astronomical Society, Review of Scientific Instruments, Journal of Quantitative Spectroscopy &amp; Radiative Transfer, IEEE Aerospace and Electronic Systems</p> <p><b>Time allocation/evaluation committees:</b> Neil Gehrels-Swift Observatory, GALEX, Chandra X-ray Observatory, Hubble Space Telescope.</p>