

Joel B. Coley, Ph.D. completed his Ph.D. in Physics in 2015 at the University of Maryland Baltimore County. He joined Howard University in 2018, currently serving as an Assistant Professor in the Department of Physics & Astronomy. His research interests focus on binary star evolution at key phases in their lifetime, specifically when X-ray and/or gamma-ray emission dominates their spectra. This topic spans from accretion in High-mass X-ray Binaries to Particle Acceleration in High-mass Gamma-ray Binaries and Transitional Millisecond Pulsars. Coley is currently studying superorbital modulation in High-mass X-ray Binaries where the wind from OB supergiant stars is the dominate mode of accretion, multi-wavelength emission in gamma-ray binaries and X-ray reprocessing at optical wavelengths.