Research Summary:

My field is Computational Materials Science, specifically applications of quantum chemistry and density functional theory for modeling of nanoscale materials. The physical systems I am interested in are diamond surfaces, interfaces, grain boundaries, and the growth processes when diamond films are produced in our laboratories. My current focus is in the integration of various modeling programs, to enable researchers to combine the strengths of each approach to allow solving more complex problems. I also share responsibility for the high-performance computing systems at our center.

Selected Recent Publications:


