

**Silver Nanoparticles**

My project involves controlling the transfer of energy from one place to another, several microns away, through small particles of silver in a fractal arrangement. We are working at understanding how the orientation and phase of incoming light affects precisely where the energy is transferred. Understanding and controlling this effect will allow growth of the field of plasmonics, which bridges optics and electronics, and will allow further miniaturization of electronic devices, such as computer chips.

-Jess Gunn