



Daniel Shuldman

Graduate Institution: University of California-Berkeley

Graduate Discipline: Applied Physics

Hometown: Kendall Park, NJ

Relevant SC Research: Basic Energy Sciences

Research Interest:

I am currently running interferometric experiments to precisely measure the (negative) refractive index of new metamaterials using a femtosecond laser source and an interferometer. In addition, I work on ways to efficiently create and store hydrogen fuel, through the use of photocatalytic plasmonic nanoparticles.

About Me:

Using many of the skills I have acquired in and outside of academia, I plan to work on cutting edge research in photovoltaics, hydrogen fuel creation and other clean energy resources. After graduating from UC Berkeley, I would like to become a professor or at least be deeply involved in my own research. I also plan to stay in California with its wonderful climate with access to its rich and diverse landscapes. Outside of academics, my passion lies

in nature. Backpacking, rock climbing, kayaking... if you name a sport that involves getting dirty, I probably love it. During the academic year, between classes and research, you can often find me playing Frisbee with friends on memorial glade or practicing guitar. Music is another of my passions and I believe that music has a way of uniting people. It's my opinion that people like Bob Dylan, John Lennon and Paul McCartney improved the world by changing the beats and melodies we hear every day. In that light, I want to work towards creating free energy in the hopes that, in my lifetime, I will be a part of a free and peaceful world.



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