

Karthish Manthiram



Graduate Institution: University of California, Berkeley

Location: Berkeley, CA

Graduate Discipline: Chemical Engineering

Hometown: Austin, TX

Research Interests:

My broad research interests include materials chemistry and solid state physics. I hope to bring these interests together by working on developing new materials for solar-to-fuel conversion at UC Berkeley. I am particularly interested in the synthesis and characterization of new nanoscale heterostructures for efficient and cost-effective solar-to-fuel conversion.

About me:

I graduated from Stanford University with a B.S. in Chemical Engineering. As an undergraduate, I did honors thesis research in Professor Jim Swartz's lab on developing bioluminescent probes for cancer detection, which led to a publication and patent. I also worked in Professor Yi Cui's lab on developing nanostructured topological insulators, which may be useful for thermoelectric energy conversion.

I am a member of Tau Beta Pi. I served as the Financial Director of the American Institute of Chemical Engineers at Stanford and I enjoyed doing science activities with elementary school children as a part of Science in Service at Stanford. I am a recipient of the Tau Beta Pi Fellowship, Barry M. Goldwater Scholarship, Frederick Emmons Terman Engineering Scholastic Award, and Mason Marsden Prize in Chemical Engineering at Stanford University.

After graduate school, I want to become a professor, as I have had enjoyable research and teaching experiences. In my free time, I enjoy wood working, web design, and running.



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