Stephen J. DeWitt

Graduate Institution: University of Michigan-Ann Arbor

Graduate Discipline: Computational Materials Science

Hometown: Lansing, MI

Relevant SC Research: Basic Energy Sciences

Research Interest:

I am interested in how straightforward physical concepts lead to emergent behavior in complex geometries and how computation can yield insight into these systems. I am also interested in the computational methods for solving differential equations in these complex geometries, especially when the geometry evolves in time. My thesis research is focused on modeling the self-organization of nanopores and nanotubes through an electrochemical oxidation process called anodization. I am particularly interested in research that has applications to energy generation and storage because I believe such research has the potential for enormously positive societal impact.

About Me:

I graduated from the University of Michigan with a BSE in engineering physics. While doing my undergraduate studies I cofounded a student organization named M-HEAL that repairs, designs, and builds medical equipment for developing countries with the intention to create sustainable ventures with partners in the developing countries. I am a student member of the Electrochemical Society. After graduate school I would like to do research at a national lab or at a start-up.

My non-research interests include public policy, social ventures, running, tennis, and video game mechanics.

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