

Micah Sheppard



Graduate Institution: Massachusetts Institute of Technology

Graduate Discipline: Chemical Engineering

Hometown: Norwich, CT

Relevant SC Research: Biological and Environmental Research

Research Interest:

I am generally interested in the development of renewable solutions to growing global petroleum demands. Specifically I am fascinated by biological catalysts which I believe have the potential to contribute in the production tailored chemical products. My current research focuses on design of non-natural metabolic pathways for the synthesis of second-generation biofuels. While it is unclear what role microbial biofuels will play in future energy landscape, the techniques for metabolic and protein engineering can be applied to produce a variety of specialty chemicals which are currently petroleum derived. I am interested in the development of such techniques and the design of pathways for such purposes.

About Me:

I am currently a fourth year graduate student and plan on seeking a post-doctoral position focused on protein engineering after graduation. I greatly enjoy teaching, learning from, and collaborating with others and want to continue my career in such an environment, whether that is at a company or in an academic setting. I would love an opportunity to mentor future graduate students. At MIT I am involved with a variety of intramural athletics. My wife and I welcomed our first child into the world in January 2012.



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