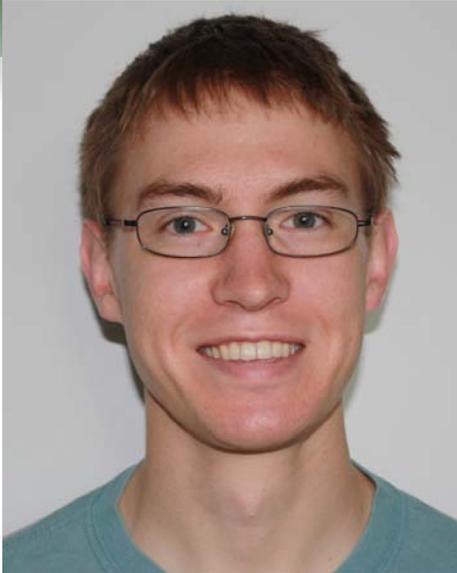


Alex Mellnik



Graduate Institution: Cornell University

Location: Ithaca, NY

Graduate Discipline: Solid State Physics

Hometown: Charlotte, NC

Research Interests:

I am interested in spin-transfer torque and current-induced torques in antiferromagnetic materials. I'm also interested in everyone's new favorite materials system – topological insulators.

About me:

I'm starting my second year as a graduate student in Dan Ralph's nanoscale physics group at Cornell University. I'm currently working with another graduate student, Yongtao Cui, on investigating the effect current-induced torques can have on magnetic dynamics in ferromagnet/antiferromagnet bilayers. I am also starting a new project to investigate dynamics at the ferromagnet/topological insulator interface.

As an undergraduate, I worked with the Tsui group at the University of North Carolina and learned the fine art of microelectronic device fabrication. While I still work in the clean room, I'm also learning as much as I can about transport and ferromagnetic resonance measurements.

At Cornell I work with other students to repair laboratory equipment for local schools, and also to design and build new experiments that can be done by high school students. When I'm not in the lab I enjoy gardening, DIY engineering and kiteboarding.



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