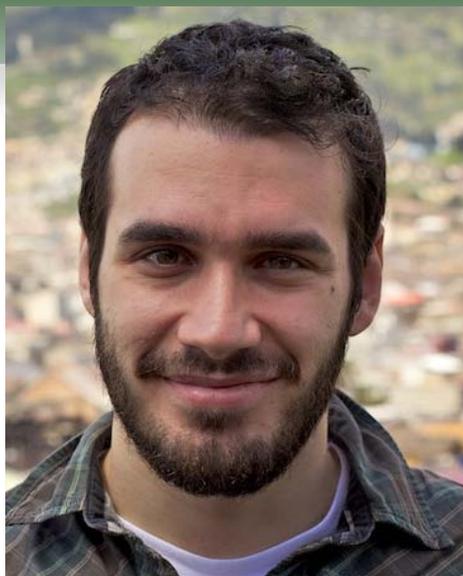


Shane Parker



Graduate Institution: Northwestern University

Location: Evanston, IL

Graduate Discipline: Theoretical Chemistry

Hometown: Punta Gorda, FL

Research Interests:

I am currently interested in the theoretical description of control of electron transport using coherent laser pulses. In particular, I am studying the control of torsion using linearly polarized half-cycle pulses, with an aim to control transport through control of conjugation, chirality, and interaction with a magnetic field.

I have previously studied the structure and mechanism of transition-metal based catalysts using density functional theory.

About me:

My interest in theoretical chemistry was born while studying quantum mechanics with Yngve Öhrn as an undergraduate chemistry and mathematics major at the University of Florida. After graduating in 2008, I spent a year with Professor Notker Rösch at the Catalysis Research Center of the Technical University of Munich as a Fulbright Fellow, researching in catalysis, practicing my German, and enjoying lovely Munich, Germany, and Europe. One of the highlights from that year was the opportunity to attend the Lindau meeting of the Nobel laureates in Lindau, Germany. Since September 2009 I have been a graduate student at Northwestern University, joint between Professors Tamar Seideman and Mark Ratner. With a Ph.D. in theoretical chemistry I will be one important step closer to my current ideal of becoming a Professor.

When I am not thinking about chemistry, I can often be found holding a camera in front of my face or rock climbing, both interests I picked up from my brother. I also thoroughly enjoy cooking, traveling, attempting to learn new languages, and sharing those experiences with friends.



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