



John T. Heron

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John Heron was awarded B.S. from UC Santa Barbara in 2007 where he studied magnetic semiconductors in the lab of Prof. David Awschalom. For Ph.D., he investigated magnetoelectric switching of thin film BiFeO_3 under the mentorship of Prof. Ramamoorthy Ramesh at UC Berkeley. Heron received the Ross N. Tucker award in 2013 for superior work and scholarship in the development of novel electronic materials by a graduate student. As a postdoc in the lab of Prof. Schlom, Heron investigated magnetoelectric switching in novel composite multiferroic heterostructures. Since Jan. 2016, John Heron has been a member of the Materials Science and Engineering department at the University of Michigan. The Heron group focuses on investigating functional properties of ferroic material and devices. He is best known for pulsed laser deposition thin film ferroic and multiferroic oxides and the characterization of magnetoelectric and multiferroic materials. Heron's research seeks to uncover, understand, and engineer new electronic phenomena and to push the frontier of technology with next generation devices based on these materials. Interest resides in interface, spin, structure, and charge effects that occur in layered structures with ferroic (and antiferroic) materials. Further interest reside in the development of multiscale ferroic characterization techniques that include scanning probe microscopy and voltage controlled- devices to probe and quantify ferroic phenomena.