

Curriculum Vitae- Ezekiel Johnston-Halperin

Education

- March 2003* PhD, Physics, University of California, Santa Barbara, “Optical, Magnetic, and Electronic Control of Free Carrier Spin in Semiconductors”
- April 2000* M.A., Physics, University of California, Santa Barbara
- June 1996* B.S. *cum laude*, Physics, Case Western Reserve University

Professional Appointments

- September 2012 – present:* Associate Professor: Department of Physics, The Ohio State University
- July 2007 – present:* Associate Professor: Chemical Physics Program, The Ohio State University
- July 2006 – September 2012:* Assistant Professor: Department of Physics, The Ohio State University
- April 2003 – June 2006:* Post-Doctoral Researcher: The California Institute of Technology, Division of Chemistry and Chemical Engineering
Research Supervisor: Professor James R. Heath
- September 1996-March 2003:* Graduate Student Researcher: The University of California at Santa Barbara, Department of Physics
Thesis Advisor: Professor David D. Awschalom
- July 1994 – July 1996:* Research Assistant at Case Western Reserve University
Research Supervisor: Professor David E. Farrell

Publications: 36 total publications, 2 in *Science*, 3 in *Physical Review Letters*, and 3 in *Nature*, 7 with 100+ citations; *h-index*: 23 (ISI), 25 (Google Scholar).

Presentations: 35 contributed and 29 invited presentations, the latter including the APS March Meeting, the MRS Spring Meeting and the March Meeting of the DPG (Germany).

Patents: “Bipolar Spin Transistors and the Application of Same,” *pending*.

Current Funding: *As PI or co-PI:* DoE BES “Optical Study of Spin Dynamics in Semiconducting Nanowires,” \$600,000 (EJH share: \$300,000), 8/15/2012 – 5/14/2015; NSF DMR “Electrical spin injection at chemically modified organic/inorganic interfaces,” \$570,000 (EJH share: \$400,000), 5/31/2012 – 6/1/2015; *As Co-I:* NSF MRSEC “Center of Emergent Materials”, \$17,000,000 (EJH share: \$360,000), 9/1/2008 – 8/31/2014.

Expired Funding: NSF SGER “Sublithographic Patterning of Nanoscale Spintronic Devices,” \$75,000, 5/1/2007 – 4/31/2009; NSF MRI “Acquisition of a Hybrid Diamond/III-N Synthesis Cluster Tool,” \$600,000 (equipment funds), 10/1/2009 – 9/31/2011.

Advisees: Currently advising 7 PhD students and 2 postdoctoral researchers, have graduated 2 Masters and 3 PhDs to date.

Service (Research): Member of the following advisory boards: the Institute for Materials Research at OSU Faculty Advisory Board, OSU NanoSystems Laboratory Oversight Board; Director, Center for the Exploration of Novel Complex Materials (ENCOMM). Member of the Executive Committee of the Center for Emergent Materials (CEM). Co-leader of IRG-1: “Towards Heterogeneous, Spin-Preserving Networks” within the CEM.

Service (Department): Member of the Graduate Studies Committee (September 2006 – August 2009); Member of the Colloquium Committee (September 2007 – August 2008); Member of the Public Relations Committee (September 2009 – August 2010).