

191 West Woodruff Ave
Department of Physics
The Ohio State University
Columbus OH
☎ 520-419-7198
✉ jgoodman@physics.osu.edu
Citizenship - USA

Jessica Goodman

Education

- 2013 **Ph.D.**, *University of California Irvine*, Irvine, CA.
Physics, Advisor: Yuri Shirman
- 2008 **M.S.**, *University of California Irvine*, Irvine, CA.
Physics
- 2006 **B.S.**, *University of Arizona*, Tucson, AZ.
Major: Physics and Mathematics *Magna Cum Laude*

Employment

- Aug 2013- **Postdoctoral Researcher**, Dept. of Physics, *The Ohio State University*, Columbus OH

Teaching

- Fall 2012 **Teaching Assistant**, Classical Physics and Classical Physics Lab, *UCI*
- Summer 2012 **Teaching Assistant**, Basic Physics II and III, *UCI*
- Summer 2012 **Teaching Assistant**, Classical Physics and Classical Physics Lab, *UCI*
- Spring 2011 **Private Tutor**, AP Physics C, *Irvine CA*
- Spring 2010 **Teaching Assistant**, Basic Physics II, *UCI*
- Fall 2008 **Teaching Assistant**, Classical Physics and Classical Physics Lab, *UCI*
- Spring 2008 **Teaching Assistant**, Basic Physics III, *UCI*
- Fall 2007 **Teaching Assistant**, Basic Physics I, *UCI*
- Spring 2006 - Summer 2007 **Data Processing Assistant**, SOLIS group at National Optical Astronomy Observatory *Tucson AZ*
- 2005 **Instructor**, High School Pre-calculus, *Tucson AZ*
- 2000-2001 **Mathematics Tutor**, ASPIRE program, *Eastern Arizona College*

Selected Talks and Summer Schools

- March 2015 "New Calculations in Dirac Gaugino Models: Operators, Expansions, and Effects" Seminar at Cornell University
- November 2013 "The $m_D - b_M$ Problem of Dirac Gauginos and its Solutions" Seminar at The Ohio State University
- December 2011 "R Symmetry Matching in SUSY Breaking Models" Seminar at University of California, Santa Cruz

- June 2011 "R Symmetry Matching in SUSY Breaking Models" Theoretical Advanced Summer Institute University of Colorado
- August 3-14 SLAC Summer Institute
2009
- Fall 2008 "A Gravitationally Dual Description of Superconductivity" GAANN poster presentation
- Summer "Event Classification for VERITAS" NSF REU at University of Chicago
2005

Fellowships and Awards

GAANN Fellowship, *UCI*
Regent's Fellowship, *UCI*
Member Phi Beta Kappa, *UA*
George Gregson Scholarship, *UA*
Computer Science, Engineering and Mathematics Scholarship, *UA*

Publications

- 1 **New Calculations in Dirac Gaugino Models: Operators, Expansions, and Effects**, with *Linda Carpenter*, arXiv:1501.05653.
- 2 **The $m_D - b_M$ Problem of Dirac Gauginos and its Solutions**, with *Csaba Csaki, Riccardo Pavesi, and Yuri Shirman*, arXiv:1310.4504, Published in *Phys.Rev.D89* (2014) 055005.
- 3 **Pseudo-Higgs Signals at the LHC**, with *Linda Carpenter*, arXiv:1205.5555.
- 4 **Collider Bounds on UV-Complete Models of Dark Matter**, with *William Shepherd*, arXiv:1111.2359.
- 4 **R-symmetry Matching in SUSY Breaking Models**, with *Masahiro Ibe, Yuri Shirman, and Felix Yu*, arXiv:1106.1168, Published in *Phys.Rev.D84* (2011) 045015.
- 6 **Gamma Ray Line Constraints on Effective Theories of Dark Matter**, with *Masahiro Ibe, Arvind Rajaraman, Tim M. P. Tait, William Shepherd, and Hai-Bo Yu*, arXiv:1009.0008, Published in *Nucl.Phys.B844* (2011) 55-68.
- 7 **Constraints on Dark Matter from Colliders**, with *Masahiro Ibe, Arvind Rajaraman, Tim M. P. Tait, William Shepherd, and Hai-Bo Yu*, arXiv:1008.1783, Published in *Phys.Rev.D82* (2010) 116010.
- 8 **Constraints on Light Majorana Dark Matter from Colliders**, with *Masahiro Ibe, Arvind Rajaraman, Tim M. P. Tait, William Shepherd, and Hai-Bo Yu*, arXiv:1005.1286, Published in *Phys.Lett.B695* (2011) 185-188.