

Chris Orban

CONTACT INFORMATION

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RESEARCH INTERESTS

Large-Scale Structure of the Universe, Near-field Cosmology, Galaxy Formation

EDUCATION

The Ohio State University, Columbus, OH, USA

Ph.D. Physics, expected Summer 2010

Thesis Title: "Self-similarity as a Precision Tool for Cosmological Simulations and its Applications"

Advisors: David Weinberg/Terry Walker

The Ohio State University, Columbus, OH, USA

M.S. Physics, June 2008

Master's Thesis Title: "The Clustering of Dark Matter in Λ CDM on Scales both Large and Small"

Advisors: David Weinberg/Terry Walker

University of Illinois, Urbana-Champaign, IL, USA

B.S. Physics with Honors, December 2004

Undergraduate Thesis Title: "Modeling Protogalactic Collapse and Magnetic Field Evolution with FLASH"

Advisor: Paul Ricker

ACADEMIC AND WORK EXPERIENCE

The Ohio State University, Center for Cosmology and Astroparticle Physics

Graduate Research Fellow

Summer 2007 - Present

Teaching Assistant

Winter & Spring 2007, Fall 2009

University of Illinois, Urbana-Champaign, IL, USA

Teaching Assistant

August 2002 - June 2004

Undergraduate Research Student

January 2004 - December 2004

Los Alamos National Laboratory, Los Alamos, NM, USA

Research Assistant to Dr. Hui Li

July 2004 - August 2004

Harvard-Smithsonian Center for Astrophysics, Boston, MA, USA

REU student

Summer 2003

National Radio Astronomy Observatory, Green Bank, WV, USA

REU student

Summer 2002

HONORS AND AWARDS

University Fellowship, The Ohio State University, 2006

Student Travel Grant to attend Novicosmo 2008 conference, Trieste, Italy, October 2008

Student Travel Grant to attend Sloan Collaboration Meeting, Sloan Foundation, July 2008

ATTENDED
CONFERENCES

CCAPP Symposium 2009, Oral Presentation: “Self-similar Bumps and Wiggles: Isolating the Evolution of the BAO peak using Power-Law Initial Conditions”, Columbus, OH, October 2009

Sloan III Collaboration meeting, Poster Presentation: “Self-similar Bumps and Wiggles: Isolating the Evolution of the BAO peak using Power-Law Initial Conditions”, Princeton, NJ, July 2009

Princeton Institute of Theoretical Physics 2009 (“Computational Astrophysics”), Summer School Participant, Institute for Advanced Study, Princeton, NJ, July 2009

Novicosmo 2008 (“The Impact of Simulations in Cosmology and Galaxy Formation”), Oral Presentation: “Delving Deeper into the Tumultuous Lives of Galactic Dwarfs”, Trieste, Italy, October 2008

Sloan II Collaboration meeting, Poster Presentation: “Delving Deeper into the Tumultuous Lives of Galactic Dwarfs”, Chicago, IL, July 2008

Santa Fe Cosmology Workshop, Poster Presentation: “Delving Deeper into the Tumultuous Lives of Galactic Dwarfs”, Santa Fe, NM, July 2008

Great Lakes Cosmology Workshop, Attendee, Carnegie Mellon University, Pittsburgh, PA, June 2008

The Globular Clusters – Dwarf Galaxies Connection Workshop, Oral Presentation: “Modeling Star Formation Histories of Local Group Dwarfs”, University of Michigan, Ann Arbor, July 2007

PAPERS

Orban, C., Weinberg, D.H., “Self-similar Bumps and Wiggles: Isolating the Evolution of the BAO peak with Power-Law Initial Conditions” (in prep.)

Orban, C., Gnedin, O. Y., Weisz, D. R., Skillman, E. D., Dolphin, A. E., & Holtzman, J. A. “Delving Deeper into the Tumultuous Lives of Galactic Dwarfs” *ApJ*, 2008, 686, 1030

Li, H., Shengtai, L., Koller, J., Wendroff, B.B., Liska, R., **Orban, C.**, Liang, E.P.T., and Lin, D.N.C., “Potential Vorticity Evolution Produced by an Embedded Protoplanet,” 2005, *ApJ*, 624, 1003.

Orban, C. and P.M. Ricker, “Modelling Protoplanetary Collapse and Magnetic Field Evolution with FLASH.” 2004, *BAAS*, 36, 1499.

Langston, G.I., **Orban, C.**, and T.S. Bastian, “A Search for Cyclotron Maser Emission from Extra-Solar Planets.” 2002, *BAAS*, 34, 1176.

OTHER
ACTIVITIES

University Senate	August 2008 - Present
Public Outreach Talk (Cosmology), Christian Graduate Student Alliance,	Spring 2009
Presenter of historical papers at AstroCoffee/CCAPP	Summer 2008 - Present
GED Tutor	August 2008 - Present
Weinland Park Neighborhood Civic Association Leadership	December 2006 - Present
Member of Amnesty International at OSU	January 2007 - Present