

Wesley P. Even

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Education

- Louisiana State University and A&M College, Baton Rouge, Louisiana (GPA 3.836/4.000)
Ph.D. Physics, May 2010 (expected graduation date)
Ph. D. Thesis Title: “Mass Transfer and Mergers in Double White Dwarf Binaries”
Advisor: Dr. Joel Tohline, Department of Physics and Astronomy
M.S. Physics, May 2008
- University of Northern Iowa, Cedar Falls, Iowa (GPA 3.62/4.00)
B.S. Physics, May 2003
Minor: Computer Information Systems, Mathematics, and Astronomy

Research Interests

- Computational fluid dynamics
- Parallel and distributed computing
- Binary stars and novae
- Scientific visualization

Research Experience

- Research Assistant
Department of Physics and Astronomy, LSU, August 2005 - Dec 2005, July 2008 - Present
Center for Computation and Technology, LSU, January 2008 - June 2008
 - Developing steady state and dynamic fluid models for interacting binary star systems
- National Science Foundation – IGERT Fellow
Department of Physics and Astronomy, LSU, January 2006 - December 2007
 - Interdisciplinary computational fluid dynamics
 - Implementing new methods for solving elliptic equations in stellar modeling simulations
- Summer Undergraduate Research Fellowship
Department of Physics, UNI, 2001 and 2002
 - Simulating the effects of planetary collisions
 - Computational study of the spectrum of endohedral H and Mg
 - Dispersion relation for capillary waves - noncontact viscosity determination

Teaching Experience

- Graduate Teaching Assistant – Lab Instructor
Department of Physics and Astronomy, LSU, August 2003 - July 2005
- Teaching Assistant – Grader and Tutor
Department of Physics, UNI, 2000-2003

Technical Training

- Fifth International Summer School on Grid Computing
Mariefred, Sweden, July 8-20, 2007
- Grid Summer Workshop
South Padre Island, TX, June 26-30, 2006

Computer Skills

- Languages and Software: FORTRAN, Java, IDL, MPI, and Matlab
- Web development using html and JavaScript

Professional Society Memberships

- American Astronomical Society

Awards/Honors

- NSF IGERT Fellowship
- University of Northern Iowa Provost Scholar
- University of Northern Iowa Purple and Old Gold Award

Publications

- Wesley Even and Joel E. Tohline, “*Constructing Synchronously Rotating Double White Dwarf Binaries,*” *Astrophysical Journal Supplement Series* (Accepted)
- W. Even, J. Smith and M.W. Roth, “*Molecular Dynamics Simulations of Noble Gases Encapsulated in C60 Fullerene,*” *Mol. Sim.* 31(4), 207 (2005)
- W. Even, J. Smith, M.W. Roth and H.A. Schuessler, “*Calculated Electronic Behavior and Spectrum of Mg+@C60 Using a Simple Jellium-shell Model,*” *Int. J. Mol. Sci.* 5, 333-346 (2004)
- W. Even and M.W. Roth, “*A New Method for Simulating the Effects of Collisions on Planets,*” *Am. J. Undergrad. Res.* 1(3), 1 (2002)

Conference Contributions and Non-refereed Publications

- Joel E. Tohline, Jinghua Ge, Wesley Even, and Erik Anderson, “*A Customized Python Module for CFD Flow Analysis within VisTrails,*” *Computing in Science and Engineering*, 11(3), 68 (2009)
- Wesley P. Even and Joel E. Tohline 2008, “*A Method For Constructing Synchronously Rotating Unequal Mass Double White Dwarf Binaries,*” 211th AAS meeting
- Wesley P. Even, Joel E. Tohline, Blaise Bourdin, and Gabrielle Allen, “*Simulating Explosive Events in Binary Stars,*” 2006 National Science Foundation IGERT Project Meeting
- Wesley P. Even, Justin A. Smith and M.W. Roth 2003, “*A Computational Study of the Energy Spectra of Endohedral Hydrogen and Magnesium,*” Sigma Xi National Student Research Conference
- Wesley P. Even, Justin A. Smith, Michael Roth, and M.W. Roth 2002, “*A Computational Study of the Spectrum of Endohedral Hydrogen and Magnesium,*” 13th Annual Argonne Symposium for Undergraduates in Science, Engineering and Mathematics
- Wesley P. Even and M.W. Roth 2001, “*A new method for simulating the effects of collisions on planets,*” 12th Annual Argonne Symposium for Undergraduates in Science, Engineering and Mathematics