

Curriculum Vitae

Michael H. Montgomery

Department of Astronomy

University of Texas

Austin, TX 78712

USA

Page 1 (of 2)

office: +1 512 471 3451

lab: +1 512 471 6417

Fax: +1 512 471 6016

Email: mikemon@astro.as.utexas.edu

URL: <http://rocky.as.utexas.edu/~mikemon/>

Scientific Interests:	asteroseismology/determination of internal structure (e.g., chemical profiles, crystallization) of stars; constraining the physics of convection through light curve fits; measuring neutrino/axion emission rates of pulsating white dwarfs; cooling theory/age dating of white dwarfs; accretion and settling of metals on white dwarfs; non-linear phenomena; radiative transfer; effect of magnetic fields on convection and/or pulsation
Appointments:	
2009–present	Research Scientist, Department of Astronomy, University of Texas
2006–present	Science Director, Delaware Asteroseismic Research Center
2004–2009	Research Associate, Department of Astronomy, University of Texas
2000–2004	Postdoctoral Research Associate, Institute of Astronomy, University of Cambridge, United Kingdom
1998–2000	Postdoctoral Research Associate, Institute of Astronomy, University of Vienna, Austria
1995–1998	Research Assistant, University of Texas at Austin
1997	Visiting Lecturer in Astronomy, Austin Community College
1994	Research Assistant, Applied Research Laboratories, UT-Austin
1992–1995	Teaching Assistant, University of Texas at Austin
1991–1992	Teaching Assistant, Physics Department, Princeton University
1988	Summer Research Assistant, Institute for Fusion Studies, UT-Austin
Education:	
1992–1998	Department of Astronomy, University of Texas at Austin Ph.D. thesis (Dec. 1998): “The Evolution and Pulsation of Crystallizing White Dwarf Stars” Masters thesis (Dec. 1994): “The Frequency Spectra of Weakly Magnetic White Dwarf Stars”
1988–1992	M.A. Physics, Department of Physics, Princeton University
1984–1988	B.S. Physics, University of Texas at Austin
Languages:	English (native), German (fluent)

Invited talks and honors:	<p>Invited Review Talk, Stellar Pulsation: Challenges for Theory and Observation, Santa Fe, NM, Summer 2009</p> <p>Invited Review Talk, Unsolved Problems in Astrophysics, Cambridge, UK, Summer 2007</p> <p>Departmental Colloquium, <i>HAO</i>, Fall 2005</p> <p>Invited Talk, National Astronomy Meeting, Dublin, Spring 2003</p> <p>Physics and Astronomy Colloquium, University of Aarhus, Spring 2002</p> <p>Co-editor of <i>Proceedings of the 6th Vienna Workshop in Astrophysics</i>, 1999</p> <p>Invited Review Talk, The 11th European Workshop on White Dwarfs, 1998</p> <p>Physics and Astronomy Colloquium, Iowa State University, Spring 1998</p> <p>Astronomy Department Student Representative, 1993–1994</p>																
Grants & Fellowships:	<p>PI on NSF Grant “Fundamental Astrophysics from Precision Asteroseismology,” 2009–2012 (\$566,803 over 3 yrs)</p> <p>PI on NSF Grant “Precision Light Curves as Probes of Fundamental Physics,” 2005–2008 (\$347,000 over 3 yrs)</p> <p>PI on “Research in Stellar Seismology,” The Crystal Trust Foundation/ University of Delaware, 2006–2010 (\$222,000 over 4 yrs)</p> <p>David Bruton, Jr., Fellowship, 1996–1997</p> <p>University Continuing Fellowship, 1994–1995</p> <p>Fred T. Goetting, Jr., Memorial Endowed Presidential Scholarship, 1994–1995</p> <p>National Science Foundation Graduate Fellowship, 1988–91</p>																
Teaching and public outreach: 2009–2010 2006–2008 2002 & 2004 2003 2002 2001 1997 1992–1995 1991–1992	<p>Taught Astronomy Stream of Freshman Research Initiative (FRI), UT-Austin</p> <p>Taught “Physics of Waves” at Texas State University, San Marcos, TX</p> <p>Graduate Student Lectures on Star Formation and Stellar Pulsation, IoA, Cambridge, UK</p> <p>Talk at meeting of the Cambridge Astronomical Association</p> <p>Final four lectures of Part I Mathematics, IoA, Cambridge, UK</p> <p>Lectures at Alston Hall Amateur Astronomy Retreat</p> <p>Lecturer in Astronomy, Austin Community College</p> <p>Teaching Assistant, University of Texas at Austin</p> <p>Teaching Assistant, Physics Department, Princeton University</p>																
Main collaborators:	<table border="0"> <tr> <td><i>University of Texas, USA</i></td> <td>D. E. Winget</td> </tr> <tr> <td><i>University of Delaware, USA</i></td> <td>J. Provencal</td> </tr> <tr> <td><i>University of Kiel, DEU</i></td> <td>D. Koester</td> </tr> <tr> <td><i>Instituto de Física, UFRGS, BR</i></td> <td>S. O. Kepler</td> </tr> <tr> <td><i>University of Cambridge, UK</i></td> <td>D. O. Gough</td> </tr> <tr> <td><i>Max-Planck-Inst. f. Astrophys., Garching, DEU</i></td> <td>F. Kupka</td> </tr> <tr> <td><i>Subaru Telescope, Mauna Kea, USA</i></td> <td>S. & A. Kleinman</td> </tr> <tr> <td><i>HAO, Boulder, USA</i></td> <td>T. S. Metcalfe</td> </tr> </table>	<i>University of Texas, USA</i>	D. E. Winget	<i>University of Delaware, USA</i>	J. Provencal	<i>University of Kiel, DEU</i>	D. Koester	<i>Instituto de Física, UFRGS, BR</i>	S. O. Kepler	<i>University of Cambridge, UK</i>	D. O. Gough	<i>Max-Planck-Inst. f. Astrophys., Garching, DEU</i>	F. Kupka	<i>Subaru Telescope, Mauna Kea, USA</i>	S. & A. Kleinman	<i>HAO, Boulder, USA</i>	T. S. Metcalfe
<i>University of Texas, USA</i>	D. E. Winget																
<i>University of Delaware, USA</i>	J. Provencal																
<i>University of Kiel, DEU</i>	D. Koester																
<i>Instituto de Física, UFRGS, BR</i>	S. O. Kepler																
<i>University of Cambridge, UK</i>	D. O. Gough																
<i>Max-Planck-Inst. f. Astrophys., Garching, DEU</i>	F. Kupka																
<i>Subaru Telescope, Mauna Kea, USA</i>	S. & A. Kleinman																
<i>HAO, Boulder, USA</i>	T. S. Metcalfe																
Personal Information:	<p>Born: 10 May 1966 in Nashville, TN, USA</p> <p>Citizenship: USA</p>																