

Curriculum Vitae

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<p>Scientific Interests:</p>	<p>White Dwarfs: <i>asteroseismology/determination of internal stellar structure (e.g., chemical profiles); mapping convection through light curve fits; measuring neutrino emission rates; cooling theory/age dating of white dwarfs</i></p> <p>General Physics: <i>application of moment equation convection formalism to white dwarf and A- and F-star envelopes; diffusion; non-linear phenomena; radiative transfer; diffusion; effect of magnetic fields on convection and/or pulsation</i></p>
<p>Appointments: 2004–present 2000–2004 1998–2000 1995–1998 1997 1994 1992–1995 1991–1992 1988</p>	<p>Research Associate, Department of Astronomy, University of Texas Postdoctoral Research Associate, Institute of Astronomy, University of Cambridge, United Kingdom Postdoctoral Research Associate, Institute of Astronomy, University of Vienna, Austria Research Assistant, University of Texas at Austin Visiting Lecturer in Astronomy, Austin Community College Research Assistant, Applied Research Laboratories , UT-Austin Teaching Assistant, University of Texas at Austin Teaching Assistant, Physics Department, Princeton University Summer Research Assistant, Institute for Fusion Studies, UT-Austin</p>
<p>Education: 1992–1998 1988–1992 1984–1988</p>	<p>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” M.A. Physics, Department of Physics, Princeton University B.S. Physics, University of Texas at Austin</p>
<p>Languages:</p>	<p>English (native), German (fluent)</p>

Invited talks and honors:	<p>Departmental Colloquium, <i>HAO</i>, Fall 2005 Invited Talk, National Astronomy Meeting, Dublin, Spring 2003 Physics and Astronomy Colloquium, University of Aarhus, Spring 2002 Co-editor of <i>Proceedings of the 6th Vienna Workshop in Astrophysics</i>, Summer 1999 Invited Review Talk, The 11th European Workshop on White Dwarfs, 1998 Physics and Astronomy Colloquium, Iowa State University, Spring 1998 Astronomy Department Student Representative, 1993–1994</p>																
Grants & Fellowships:	<p>PI on NSF Grant “Precision Light Curves as Probes of Fundamental Physics” (\$347,000 over 3 yrs) David Bruton, Jr., Fellowship, 1996–1997 University Continuing Fellowship, 1994–1995 Fred T. Goetting, Jr., Memorial Endowed Presidential Scholarship, 1994–1995 National Science Foundation Graduate Fellowship, 1988–91</p>																
Teaching and public outreach: 2002 & 2004 2003 2002 2001 1997 1992–1995 1991–1992	<p>Graduate Student Lectures on Star Formation and Stellar Pulsation, IoA, Cambridge, UK Talk at meeting of the Cambridge Astronomical Association Final four lectures of Part I Mathematics, IoA, Cambridge, UK Lectures at Alston Hall Amateur Astronomy Retreat Lecturer in Astronomy, Austin Community College Teaching Assistant, University of Texas at Austin Teaching Assistant, Physics Department, Princeton University</p>																
Main collaborators:	<table border="0"> <tr> <td><i>HAO, Boulder, USA</i></td> <td>T. S. Metcalfe</td> </tr> <tr> <td><i>Max-Planck-Inst. f. Astrophys., Garching, DEU</i></td> <td>F. Kupka</td> </tr> <tr> <td><i>University of Texas, USA</i></td> <td>D. E. Winget</td> </tr> <tr> <td><i>University of Cambridge, UK</i></td> <td>D. O. Gough</td> </tr> <tr> <td><i>University of Kiel, DEU</i></td> <td>D. Koester</td> </tr> <tr> <td><i>Los Alamos National Laboratory, USA</i></td> <td>P. A. Bradley</td> </tr> <tr> <td><i>Florida Institute of Technology, USA</i></td> <td>M. A. Wood</td> </tr> <tr> <td><i>Subaru Telescope, Mauna Kea, USA</i></td> <td>S. & A. Kleinman</td> </tr> </table>	<i>HAO, Boulder, USA</i>	T. S. Metcalfe	<i>Max-Planck-Inst. f. Astrophys., Garching, DEU</i>	F. Kupka	<i>University of Texas, USA</i>	D. E. Winget	<i>University of Cambridge, UK</i>	D. O. Gough	<i>University of Kiel, DEU</i>	D. Koester	<i>Los Alamos National Laboratory, USA</i>	P. A. Bradley	<i>Florida Institute of Technology, USA</i>	M. A. Wood	<i>Subaru Telescope, Mauna Kea, USA</i>	S. & A. Kleinman
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Personal Information:	<p>Born: 10 May 1966 in Nashville, TN, USA Citizenship: USA</p>																