

MARIOS CHATZIKOS - CURRICULUM VITAE

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CURRENT POSITION	Graduate Research Assistant Department of Astronomy, University of Virginia
RESEARCH INTERESTS	X-ray observations of galaxy clusters; galaxy cluster physics; cluster mergers & large scale structure; cosmology
EDUCATION	Ph.D. in Astronomy , December 2009 (expected) University of Virginia, Charlottesville, Virginia; Advisor: Craig Sarazin M.S. in Astronomy , May 2004 University of Virginia, Charlottesville, Virginia; Advisor: Craig Sarazin Diploma in Physics , June 2002 University of Thessaloniki, Thessaloniki, Greece; Advisor: John Seiradakis
AWARDS	Dissertation Year Fellowship , Graduate School of Arts and Sciences, University of Virginia, 2007-2008 Lawrence Fredrick Teaching Assistant Award , Department of Astronomy, University of Virginia, February 2004 <i>Note: As an international student, I am not eligible for many of the fellowships, scholarships and academic awards available to domestic students.</i>
RESEARCH EXPERIENCE	Doctoral Research Assistant to Dr. C. Sarazin , Department of Astronomy, U. of Virginia, Charlottesville, VA, 2004–present Masters Research Assistant to Dr. C. Sarazin , Department of Astronomy, U. of Virginia, Charlottesville, VA, 2002–2004 Undergraduate Research Assistant to Dr. J. Seiradakis , Department of Physics, U. of Thessaloniki, Thessaloniki, Greece, 1999–2002
ACCEPTED PROPOSALS	<ul style="list-style-type: none">• NASA, Chandra Cycle 8, <i>Generating a Homogeneous Library of Isolated Binary Galaxy Cluster Mergers — Applications to Dark Energy Surveys</i>, 2006, theory proposal, scientific PI, \$44,000• Teragrid, DAC, <i>Generating a Homogeneous Library of Isolated Binary Galaxy Cluster Mergers — Applications to Dark Energy Surveys</i>, 30,000 CPU hours allocation, Fall 2007

- PUBLICATIONS
- “Constructing a Library of Galaxy Cluster Merger Simulations”, **Chatzikos, M.**, & Sarazin, C.L. 2007 in X-ray Surveys: Evolution of Accretion, Star-Formation, and the Large Scale Structure, ed. I. Georgantopoulos, & M. Plionis (Athens: National Observatory of Athens), 76-77
 - “Chandra Observation of Abell 2065: An Unequal Mass Merger?”, **Chatzikos, M.**, Sarazin, C.L., Kempner, J.C. 2006, ApJ, 643, 751
 - “Phoebe at True Opposition: Multiwavelength Phase Curves”, A.J. Verbiscer, R.G. French, A. Aguirre, A. Guijarro, F. Hoyo, S.F. Sanchez, S. Marinoni, N.J. Chanover, J. Holtzman, A. Magazzu, P. Helfenstein, J. Martin, **M. Chatzikos**, T. Herbst, 2006, DPS Meeting #38, 6905
 - “Chandra Observation of the Merging Cluster Abell 2065”, **Chatzikos, M.**, Sarazin, C.L. 2005, in 6 years of Science with Chandra (Cambridge: Chandra X-ray Center), 104
 - “Tracing Galactic Metallicity Gradients with the 2MASS Point Source Catalog”, R. Muñoz, J. Carlin, **M. Chatzikos**, A. Hayes, S. Kanneganti R. Mellon, J. Oishi, C. Park, A. Singhal, G. Sivakoff, S.R. Majewski, M.F. Skrutskie, S. Sohn, ASPC, 317, 283
 - “Chandra Observation of the Merging Cluster Abell 2065: Survival of the Cooling Cores?”, **Chatzikos, M.**, Sarazin, C.L., Kempner, J.C., & Markevitch, M. 2004, in The Riddle of Cooling Flows in Galaxies and Clusters of Galaxies, 25
 - “Galaxy Clusters and Large Scale Structure”, Reiprich, T.H., Sarazin, C.L., Skrutskie, M., Sivakoff, G.R., **Chatzikos, M.**, Böhringer, H., & Retzlaff, J. 2003, International Astronomical Union, S216, 5
 - “Pulsars: Statistics of pulse sequences”, **M. Chatzikos**, A. Noutsos, J.H. Seiradakis, in Fifth Hellenic Astronomical Society Conference, 2001, 145
- TALKS /
CONFERENCES
- University of Alabama in Huntsville & NASA Marshall Space Flight Center, *Colloquium*, February 10, 2009
 - “UVa Astronomy Symposium”, Astronomy Department, University of Virginia, *Oral Presentation*, February 2008
 - “X-ray Surveys: Evolution of Accretion, Star-Formation and the Large Scale Structure”, *Poster Presentation and Short Talk*, Rhodes, Greece, July 2-6, 2007
 - “Huskey Research Exhibition”, University of Virginia, *Oral Presentation*, April 2007

- “UVa Astronomy Symposium”, Astronomy Department, University of Virginia, *Oral Presentation*, February 2006
- “6 years of Science with Chandra”, *Poster Presentation and Short Talk*, Boston, MA, November 2-4, 2005
- “The Riddle of Cooling Flows in Galaxy Clusters”, *Poster Presentation*, Charlottesville, VA, June 2003
- “Fifth Conference of the Hellenic Astronomical Society”, *Poster Presentation*, Fodele, Crete, Greece, 2001
- “First Conference of Amateur Astronomy”, Volos, Greece, 2001
- “Fourth Conference of the Hellenic Astronomical Society”, Pythagorion, Samos, Greece, 1999

MEMBERSHIPS

- **American Astronomical Society**, Junior Member, 2005–present
- **High Energy Astrophysics Division of the AAS**, Junior Member, 2005–present
- **Amateur Astronomical Society of Volos**, Member, 1997–present

TECHNICAL
SKILLS

- Programming Languages: C, Fortran, Perl.
- Shell scripting: Bash.
- Web: MySQL, HTML, PHP.
- Software: CIAO, Heasoft, Maple, Mathematica, IDL.
- Operating Systems: Linux, UNIX, Microsoft Windows, & MacOS X.

ADDITIONAL
TRAINING

- High Performance and Parallel Computing Bootcamp, University of Virginia, August 2007

SERVICE

- Astronomy Representative to the Graduate Student Council, 2005–2007
- Grader Organizer for Astronomy Courses, 2005–2007
- Classroom & Language Consultant, Teaching Resource Center, Fall 2004

TEACHING
EXPERIENCE

- **Teaching Assistant for undergraduate Life Beyond the Earth**, Department of Astronomy, University of Virginia, Charlottesville, VA, Spring 2007
- **Teaching Assistant for graduate High Energy Astrophysics**, Department of Astronomy, University of Virginia, Charlottesville, VA, Fall 2006
- **Mathematics Tutor for student athletes**, Athletics Department, University of Virginia, Charlottesville, VA, 2006–2007
- **Teaching Assistant for undergraduate Introductory Astronomy**, Department of Astronomy, University of Virginia, Charlottesville, VA, 2002–2004
- **Substitute instructor for undergraduate Life Beyond the Earth**, Department of Astronomy, University of Virginia, Charlottesville, VA, Fall 2003
- **Teaching Assistant for undergraduate Observational Lab**, Department of Astronomy, University of Virginia, Charlottesville, VA, 2002–2003
- **Teaching Assistant for undergraduate Introductory Astronomy**, Physics Department, University of Thessaloniki, Thessaloniki, Greece, Fall 2000

PUBLIC
OUTREACH

- **Public Nights at McCormick Observatory**, Department of Astronomy, University of Virginia, Charlottesville, VA, 2002–2008
- **Public Nights at Fan Mountain Observatories**, Department of Astronomy, University of Virginia, Charlottesville, VA, 2002–2008
- **JHU Center for Talented Youth**, Johns Hopkins University & University of Virginia, Charlottesville, VA, October 2006
- **Cale Elementary School Astronomy Program**, Department of Astronomy, University of Virginia, Charlottesville, VA, September 2005
- **Transit of Venus Outreach Program**, Department of Astronomy, University of Virginia, Charlottesville, VA, June 2004
- **Closest approach of Mars (“Marsmania”)**, Department of Astronomy, University of Virginia, Charlottesville, VA, September 2003
- **X-ray Astronomy Group Galaxy Cluster Film**, Sporadic shows over McCormick Observatory Public Nights, Department of Astronomy, University of Virginia, Charlottesville, VA, 2003

- **Astronomy Question and Answer (“AQuA”) Web Service**, Department of Astronomy, University of Virginia, Charlottesville, VA, 2002–present
- **Open House Events at the Observatory of the University of Thessaloniki**, Aristotle University of Thessaloniki, 1999–2002
- **Lunar Eclipse Public Event at the Observatory of the University of Thessaloniki**, Aristotle University of Thessaloniki, 2001
- **August 1999 Solar Eclipse Event**, Amateur Astronomical Society of Volos, Greece, 11 August 1999