

CAROLINE D'ANGELO
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PERSONAL

Citizenship: Canadian, Italian
Languages: English (native language), French (high proficiency), German (intermediate proficiency)

RESEARCH INTERESTS

Compact objects, accretion flows, hydrodynamics, MHD, jets, formation and evolution of stellar systems

RELEVANT COMPUTER KNOWLEDGE

Fortran 90, IDL, Java, C, basics of IRAF and XSPEC

EDUCATION AND RESEARCH EXPERIENCE

PhD, Astrophysics	2006-2010
Supervised by Henk Spruit, thesis title: 'Truncated accretion disks around stellar mass objects', Max Planck Institute for Astrophysics(MPA)/University of Amsterdam (expected)	
MSc., Physics and Astronomy	2005-2006
Supervised by Roman Rafikov, ' <i>Effects of finite emission height in precision pulsar timing</i> ', University of Toronto	
Student researcher	2004-2005
with Profs. Marten van Kerkwijk and Ray Carlberg, University of Toronto	
Summer student researcher	2004
with Prof. Marten van Kerkwijk, University of Toronto	
Summer student researcher	2003
with Dr. Yuri Levin, Canadian Institute for Theoretical Astrophysics	
Honours BSc., Physics and Astronomy with high distinction	2000-2004
University of Toronto	

OTHER RELEVANT EXPERIENCE

Organizer	2006-2008
Student lecture series with visiting faculty at MPA	
Teaching Assistant	2006
for undergraduate course ' <i>Life on Other Worlds</i> ', with Prof. Christopher Matzner at the University of Toronto	
Science editor	2003-2004
<i>The Varsity</i> , University of Toronto's main student newspaper (circ. 19,000), paid position	

AWARDS

Postgraduate Scholarship	2007-2010
National Science and Engineering Research Council of Canada (NSERC), Doctoral level	
Research fellowship	2006-2009
Max Planck Institute for Astrophysics, International Max Planck Research School	
Postgraduate Scholarship	2005-2006
NSERC, Master's level	
Supplemental Award	2005-2006
University of Toronto Astronomy Department	
NSERC Undergraduate Summer Research Award	2004/3
University of Toronto Scholarship	2004/3

PRESENTED TALKS

Institute Seminar , MPA	2009, June
Canadian Astronomical Society Annual Meeting , Toronto	2009, May
VII Microquasar Workshop , Foça (Turkey)	2008, August
Stellar Seminar , University of Oxford	2008, July
Astronomy Seminar, University of Amsterdam	2008, May

PUBLICATIONS

Refereed

C. D'Angelo, H. Spruit
A Model for Episodic Accretion onto Strongly Magnetic Stars I. Description of Theoretical Model
[to be submitted to MNRAS by December 1st, 2009]

C. D'Angelo, D. Giannios, C. Dullemond & H. Spruit
Soft X-ray components in the hard state of accreting black holes
Astronomy & Astrophysics, **488**, 441-450, (2008)

C. D'Angelo & R. Rafikov
Effects of finite emission height in precision pulsar timing
Phys. Rev. D, **75**, 2002, (2007)

C. D'Angelo, M. van Kerkwijk & S. Rucinski
Contact Binaries with Additional Components. II. A Spectroscopic Search for Faint Tertiaries
Astronomical Journal, **132**, 650 (2006)

Y. Levin, **C. D'Angelo**
Hydromagnetic and Gravitomagnetic Crust-Core Coupling in a Precessing Neutron Star
Astrophysical Journal, 613, 1157 (2004)

Non-refereed

C. D'Angelo, D. Giannios, C. Dullemond & H. Spruit
Soft X-ray components in the hard state of accreting black holes
VII Microquasar Workshop: Microquasars and Beyond, Sept 1-5.