

Rafael Sfair

CONTACT INFORMATION	UNESP - Sao Paulo State University Av. Ariberto Pereira da Cunha, 333 CEP 12.516-410 Guaratingueta, SP, Brazil	<i>Phone:</i> (+55) 12 3123-2814 <i>E-mail:</i> rsfair@feg.unesp.br <i>WWW:</i> www.sfair.org
OBJECTIVE	Placement in a post-doctoral or academic faculty research position	
RESEARCH INTERESTS	Planetary rings (dynamics and image analysis), dynamics of small bodies of the Solar System	
EDUCATION	UNESP - Sao Paulo State University	
	Ph.D. in Physics (expected graduation date: February 2011)	2007 – Present
	Thesis Topic: <i>Dynamics of the small satellites and rings of Uranus</i> Adviser: Silvia M. Giuliatti Winter Financial support: FAPESP	
	M. Sc. in Physics	2005 – 2007
	Thesis Topic: <i>Analysis of the Saturns F-ring Region</i> Adviser: Silvia M. Giuliatti Winter Financial support: CNPq	
	UFPR - Federal Universty of Parana	
	B.S. and Lic in Physics	2001 – 2004
	Financial support: UFPR / TN	
COMPLEMENTARY FORMATION	Stage de doctorat at the Observatoire de Paris / Meudon	2010
	Topic: Analysis of images of Uranus from VLT during the 2007 Equinox Adviser: Bruno Sicardy	
	Stage de doctorat at the Observatoire de Paris / Meudon	2009
	Ibidem.	
	COSPAR Capacity Building Workshop on Planetary Science	2007
	Topic: Photometric analysis of the F-Ring Adviser: Mark Showalter	
	Workshop on Occultations by Planetary Atmospheres	2007
ACADEMIC EXPERIENCE	UNESP - Sao Paulo State University	
	<i>Teaching</i>	
	• Instructor for IFA: Introduction to Fundamental Astronomy Physics and Mathematics undergraduate students	2010
	• Instructor for ICM: Introduction to Celestial Mechanics Physics and Mathematics undergraduate students	2009
	• Instructor for ACM: Applied and Computational Math Engineering undergraduate students	2008
	• Instructor for CP: Computer programming Physics and Mathematics undergraduate students	2008

PUBLICATIONS

Pires dos Santos, P. M., Giuliatti Winter, S. M. & Sfair, R.

Gravitational effects of Nix and Hydra in the external region of the Pluto-Charon system.

Monthly Notices of the Royal Astronomical Society, Paper accepted. (2010)

Sfair, R. & Giuliatti Winter, S. M.

Orbital evolution of the μ and ν dust ring particles of Uranus.

Astronomy and Astrophysics, 505. (2009)

Sfair, R., *et al.*

Dynamical evolution of Saturn's F ring dust particles.

Monthly Notices of the Royal Astronomical Society, 395. (2009)

Giuliatti Winter, S. M., Sfair, R., *et al.*

Analysing the New Saturnian Rings, R/2004 S1 and R/2004 S2.

Earth, Moon, and Planets, 97. (2005)

SELECTED
CONFERENCE
PUBLICATIONS

Sfair, R. & Giuliatti Winter, S. M.

Dissipative effects on the μ and ν dust particles of Uranus' secondary ring system

In: *38th COSPAR Scientific Assembly*. (2010)

Showalter, M., French, R. S., Sfair, R., *et al.*

The Brightening of Saturn's F Ring.

In: *41th DPS Meeting*. (2009)

LANGUAGE
SKILLS*

	Listening	Reading	Speaking	Writing
Portuguese	Mother tongue			
English [†]	C1	C2	B2	C1
French	B2	B1	B1	A2
Spanish	B1	B2	A1	A1

*Self-assessment European level, [†]TOIEC Score: 941/990

MEMBERSHIP

Full member of SAB (Brazilian Astronomical Society)

Fellow of RAS (Royal Astronomical Society)

Associate of COSPAR (Committee on Space Research)

Member of AAA (American Astronomical Society)

TECHNICAL SKILLS

Programming: C, FORTRAN, IDL, UNIX shell scripting, GNU make, DVCS, and others.

Image navigation and analysis: SPICE, IDL, and IRAF.

Mathematical suites: Maple, Maxima, and Mathematica.

Computer applications: \TeX (\LaTeX , \BibTeX), most common productivity packages (for Windows, and Linux platforms), Vim, Emacs, GNUPlot, GIMP.

Information technology: Service (Apache, MediaWiki, FTP, SSH, MoinMoin, POP, SMTP), Cluster resources (Torque, openmosix)

Operating systems: Linux, Apple OS X, and Microsoft Windows family

FULL CV

Available on www.sfair.org/lattes

REFERENCES

Available upon request