

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

- SHOWALTER, M., FRENCH, R. S., SFAIR, R., *et al.*
The Brightening of Saturn's F Ring.
In: *41th DPS Meeting*. (2009)
- SFAIR, R. & GIULIATTI WINTER, S. M.
Radiation Pressure Effects On The R1 And R2 Rings Of Uranus.
In: *40th DPS Meeting* (2008)

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)

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