

**IGNACIO MOSQUEIRA**  
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**EDUCATION**

- 1995      Ph.D. (Astrophysics), Cornell University, Ithaca, NY, USA.  
1992      M.S. (Astrophysics), Cornell University, Ithaca, NY, USA.  
1988      B.Sc. Summa Cum Laude (Physics), Moravian College, Bethlehem,  
            Pennsylvania, USA.
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**EXPERIENCE**

- 2000-present    Principal Investigator, SETI Institute.  
2006-2009      Instructor, Astronomy 101. Stars, Galaxies and the Universe. San Jose  
                    State University. Fall 2006 and Spring 2007.  
2006-2007      Instructor, Astronomy 10. Planetary Astronomy. San Jose State  
                    University. Fall 2006 and Spring 2007.  
2000              Instructor, Astronomy 330. Stars, Galaxies and the Universe. San  
                    Francisco State University. Spring 2000.  
1999              Instructor, Astronomy 101. Modern Astronomy. San Jose  
                    State University. Fall 1999  
1998-2000      Postdoctor, University of California at Santa Cruz.  
1995-1998      NRC Associate, NASA Ames Research Center.  
1990-1994      Research and Teaching Assistant, Cornell University (Astronomy).  
1988-1990      Teaching Assistant, Cornell University (Physics).  
1987              Summer Research Assistant, Lehigh University (Physics).
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**INVITED TALKS AND WORKSHOPS**

- 2009              Organizer: Solar-Extrasolar Meeting. NASA Ames, California.  
2008              ISSI Satellite Workshop, Bern, Switzerland.  
2007              Organizer: Solar System Origins Meeting. NASA Ames, California.  
2006              Division for Planetary Sciences Satellites Workshop, Pasadena, California.  
2005              MHD Turbulence Summer Program 2005, Brussels, Belgium.  
2005              Planetary Science Seminar on Planet-Satellite Formation, Caltech.  
2005              Special Seminar: Phoebe and the Icy Saturnian Satellites, Caltech.  
2004              TAP Colloquium, University of Arizona, Tucson.  
2004              CODEP Seminar Series, University of California, Santa Cruz.  
2004              Planet Formation: Terrestrial and Extrasolar. KITP Conference, University  
                    Of California, Santa Barbara.  
2004              On Planet-satellite Formation. Special Talk, Colloquium Series. Cornell  
                    University. Ithaca, NY.  
2004              On Planet-satellite Formation. Informal Seminar Series. Institute for  
                    Advanced Study, Princeton, NJ.

## AWARDS

- 1996 NASA Ames Certificate of Achievement.  
1995 Reviewer of the Year Award, *Icarus*.  
1995-1996 National Research Council Associate.  
1988 Outstanding Graduate Honors Class of '88, Moravian College  
1987 Honors project under Y. Kim, Lehigh University
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## SELECTED PUBLICATIONS

- 1995: Nicholson, P., I. Mosqueira, and K. Matthews. Stellar Occultations of Neptune's Rings: 1984-1988. *Icarus*, **113**, 295-330.  
1996: Mosqueira, I. Local Simulations of Perturbed Dense Planetary Rings. *Icarus*, **122**, 128-152.  
1999: Mosqueira, I., P. Estrada, L. Brookshaw. Hydrodynamical Simulations of Narrow Planetary Rings I: Scaling. *Icarus*, **139**, 260-285.  
2001: Mosqueira, I., P. R. Estrada, J. N. Cuzzi, and S. W. Squyres. Circumjovian Disk Clearing after Gap opening and the Formation of a Partially Differentiated Callisto. Proceedings of the 32<sup>nd</sup> LPSC, Houston, TX. 1989.  
2002: Mosqueira, I., P. R. Estrada. Apse-Alignment of the Uranian Rings. *Icarus*, **158**, 545-556.  
2003: Mosqueira, I., P. R. Estrada. Formation of Large Regular Satellites of Giant Planets in an Extended Gaseous Nebula I: Subnebula Model and Accretion of Satellites. *Icarus*, **163**, 198-231.  
2003: Mosqueira, I., P. R. Estrada. Formation of Large Regular Satellites of Giant Planets in an Extended Gaseous Nebula II: Satellite Migration and Survival. *Icarus*, **163**, 232-255.  
2004: Showman, A. P., I. Mosqueira, J. W. Head III. On the Resurfacing of Ganymede by Liquid-water Volcanism; *Icarus*, **172**, 635-640  
2005: Mosqueira, I., P. R. Estrada. On the Origin of the Saturnian Satellite System: Did Iapetus Form In-situ? Proceedings of the 36<sup>th</sup> LPSC, Houston, TX.  
2006: Mosqueira, I., P. R. Estrada. Jupiter's Obliquity and Long-lived Circumplanetary Disk. *Icarus*, **180**, 93-97 .  
2006: Estrada, P. R., I. Mosqueira. A Gas-poor Planetesimal Capture Model for the Formation of Giant Planet Satellite Systems. *Icarus*, **181**, 486-509.  
2009: Estrada, P. R., I. Mosqueira, J. Lissauer, G. D'Angelo, D. Cruikshank. Formation of Jupiter and conditions for accretion of the Galilean satellites. Europa Book, Eds. W. McKinnon, R. Pappalardo, K. Khurana, University of Arizona Press.  
2009: I. Mosqueira, P. R. Estrada, D. Turrini. Planetesimals and satellitesimals: formation of the satellite systems. *Space Science Reviews*, Europlanet vol. on Icy Satellites. In press.  
2009: I. Mosqueira, P.R. Estrada, S. Charnoz. Deciphering the Origin of the Regular Satellites of Gaseous Giants – Iapetus: the Rosetta Ice-Moon. *Icarus*, in press.