

CURRICULUM VITAE

August 2008

- **Personal Information:**

- Name: Ricardo Alfredo Gil-Hutton
- ID No: DNI 12.817.030, Passport 12.817.030N
- Date of Birth: November 24, 1958.
- Citizenship: Argentina.
- Married to: Claudia Virginia Albores
- Child’s Name: Juan Ignacio (born September 20, 1991).
- Present Address: Complejo Astronómico El Leoncito (Casleo), Av. España 1512 sur, J5402DSP, San Juan, Argentina.
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- **Career:**

- Doctorado en Astronomía (Ph.D. in Astronomy), Universidad Nacional de La Plata, Argentina, 2001-2004. Thesis defended on December 10, 2004: “Evolución Colisional en el Sistema Solar” (in spanish).
- Licenciatura en Astronomía (B.A. in Astronomy), Universidad Nacional de San Juan, Argentina, 1995-1999. Final presentation on February 19, 1999: “Diversidad Espectral de Objetos Trans-Neptunianos” (in spanish).
- Other:
 - * Posgraduate Course “Las Estrellas de Gran Masa”, teacher in charge: Dr. Orlando H. Levato, Universidad nacional de San Juan, Argentina, 2001.
 - * Course “Introducción al Procesamiento Digital de Imagenes”, teacher in charge: Dr. Guillermo Kaufmann, Laseroptics S.A., Argentina, 1994.
 - * Course “Manejo de Redes Informáticas”, Siscotel S.A., Argentina, 1988.

- **Academic Awards:**

- In January 2007, the asteroid (4878) 1968 OF was renamed as (4878) Gilhutton by the International Astronomical Union.

- I received the Medal and Honor Diploma as the best student of those who obtain their Degree in 1998 - 1999, Universidad Nacional de San Juan (General Mean Calification: 9.59 over 10; Resolution 1576 - UNSJ).

● **Publications:**

- Accepted:
 - * “Surface composition of Hungaria asteroids from the analysis of the Sloan Digital Sky Survey colors”, M. Cañada Assandri and R. Gil-Hutton. *Astron. Astrophys.*, accepted, 2008.
- Published: 55 publications in total, listed here since 2000 only.
 - * “Collisional activation of asteroids in cometary orbits”, C. G. Díaz and R. Gil-Hutton. *Astron. Astrophys.*, **487**, 363, 2008.
 - * “Taxonomy of asteroid families among the Jupiter Trojans: comparison between spectroscopic data and the Sloan Digital Sky Survey colors”, F. Roig, A. O. Riveiro, and R. Gil-Hutton. *Astron. Astrophys.*, **483**, 911, 2008.
 - * “New cases of unusual polarimetric behavior in asteroids”, R. Gil-Hutton, V. Mesa, A. Cellino, Ph. Bendjoya, F. Lovos, and L. Peñaloza. *Astron. Astrophys.*, **482**, 309, 2008.
 - * “V-type asteroids in the middle Main Belt”, F. Roig, D. Nesvorný, R. Gil-Hutton, and D. Lazzaro. *Icarus*, **194**, 125, 2008.
 - * “Surface composition of Hilda asteroids from the analysis of the Sloan Digital Sky Survey colors”, R. Gil-Hutton, and A. Brunini. *Icarus*, **193**, 567, 2008.
 - * “Asteroid Compositions: some evidence from polarimetry”. A. Cellino, M. Di Martino, A.-C. Levasseur-Regourd, I. N. Belskaya, Ph. Bendjoya, and R. Gil-Hutton. *Advances in Geosciences*, **7**, 21, 2007.
 - * “Polarimetric Observations of Hungaria Asteroids”, R. Gil-Hutton, D. Lazzaro, and P. Benavidez. *Astron. Astrophys.*, **468**, 1109, 2007.
 - * “The water ice rich surface of (145453) 2005 RR₄₃: a case for a carbon-depleted population of TNOs?”. N. Pinilla-Alonso, J. Licandro, R. Gil-Hutton, and R. Brunetto. *Astron. Astrophys.* **468**, L25, 2007.
 - * “Polarimetry of M-type Asteroids”. R. Gil-Hutton. *Astron. Astrophys.* **464**, 1127, 2007.
 - * “Selecting candidate V-type asteroids from the analysis of the Sloan Digital Sky Survey”. F. Roig and R. Gil-Hutton. *Icarus* **183**, 411, 2006.
 - * “Identification of Families Among Highly Inclined Asteroids”, R. Gil-Hutton. *Icarus* **183**, 93, 2006.
 - * “The strange polarimetric behaviour of asteroid (234) Barbara”. A. Cellino, I. N. Belskaya, Ph. Bendjoya, M. Di Martino, R. Gil-Hutton, K. Muinonen, and E. F. Tedesco. *Icarus* **180**, 565, 2006.

- * “Asteroid Polarimetric Observations Using the Torino UBVRI Photopolarimeter”, A. Cellino, R. Gil-Hutton, M. Di Martino, Ph. Benjoya, and E. F. Tedesco. *Icarus* **179**, 304, 2005.
- * “The F-type Asteroids, with Small Inversion Angles of Polarization”, I. N. Belskaya, Yu. G. Shkuratov, Yu. S. Efimov, N. M. Shakhovskoy, R. Gil-Hutton, A. Cellino, E. S. Zubko, A. A. Ovcharenko, S. Yu. Bondarenko, V. G. Shevchenko, S. Fornasier, and C. Barbieri. *Icarus*, **178**, 213, 2005.
- * “Opposition Polarimetry and Photometry of S and E-type Asteroids”, Belskaya, I. N., Shevchenko, V. G., Kiselev, N. N., Krugly, Yu. N., Shakhovskoy, N. M., Efimov, Yu. S., Gaftonyuk, N. M., Cellino, A., and Gil-Hutton, R. *Icarus* **166**, 276, 2003.
- * “Southern Stars Which Can be Used as Unpolarized Standards”, R. Gil-Hutton and P. Benavidez. *Mon. Mot. Royal Astron. Soc.* **345**, 97, 2003.
- * “Photometry of Fourteen Main Belt Asteroids”, R. Gil-Hutton and M. Cañada. *Rev. Mex. Astron. Astrof.* **39**, 69, 2003.
- * “Collisional evolution of small body populations”, D. Davis, D. Durda, F. Marzari, R. Gil-Hutton, and A. Campo-Bagatin. Chapter of the book “Asteroids III”, Space Science Series, University of Arizona Press, Tucson, 2003, pp. 545-558.
- * “The Surface of Cometary Nuclei Related Minor Icy Bodies”, Licandro, J., Guerra, J. C., Campins, H., Di Martino, M., Lara, L. M., Gil-Hutton, R., and Tozzi, G.P. *Earth, Moon and Planets* **90**, 495, 2002.
- * “Opposition Polarimetry and Photometry of the Low Albedo Asteroid 419 Aurelia”, Belskaya, I. N., Shevchenko, V. G., Efimov, Yu. S., Shakhovskoy, N. M., Shkuratov, Yu. G., Gaftonyuk, N. M., Gil-Hutton, R., Krugly, Yu. N., and Chiorny, V. G. *Proceed. of Asteroids, Comets, Meteors 2002*, Berlin, ESA Publishing Division, p.489-491, 2002.
- * “Color diversity among Kuiper belt objects: The collisional resurfacing model revisited”, R. Gil-Hutton. *Planet. Space Sci.* **50**, 57, 2002.
- * “VR Photometry of Sixteen Kuiper Belt Objects”, R. Gil-Hutton and J. Licandro. *Icarus* **152**, 246, 2001.
- * “Collisional Rates and Impact Velocities of Short-Period Comets with Interplanetary Particles”, R. Gil-Hutton. *Planet. Space Sci.* **48**, 545, 2000.
- * “Collisional Evolution of the Outer Asteroid Belt”, Gil-Hutton, R., and A. Brunini. *Icarus* **145**, 382, 2000.
- * “CCD Photometry of Cometary Nuclei I: Observations from 1990 - 1995”, Licandro, J., G. Tancredi, M. Lindgren, H. Rickman, and R. Gil-Hutton. *Icarus* **147**, 161, 2000.

– Astrometric Publications:

82 astrometric publications in IAU Minor Planet Circulars and IAU Minor Planet Electronic Circulars since 1992.

● **Main Contributions in Scientific Meetings:**

- “Evolución colisional de TNOs con superficies de hielo”, R. Gil-Hutton. *IV Taller de Ciencias Planetarias*, Febrero 2008, San Juan, Argentina.
- “Origin of Basaltic Asteroids in the Main Asteroid Belt”, F. Roig, D. Nesvorný, B. Gladman, R. Gil-Hutton, V. Carruba, D. Lazzaro. *IV Taller de Ciencias Planetarias*, Febrero 2008, San Juan, Argentina.
- “Selecting Candidate Basaltic Asteroids from the Analysis of the Sloan Digital Sky Survey”, F. Roig, y R. Gil-Hutton. *III Taller de Ciencias Planetarias*, March 2006, Colonia, Uruguay.
- “Polarimetric Albedo of V-type Asteroids”, R. Gil-Hutton and D. Lazzaro. *Asteroids, Comets, Meteors 2005*, August 2005, Búzios, Brazil.
- “Polarimetric Observations of Asteroids”, A. Cellino, R. Gil-Hutton, M. Di martino, E. F. Tedesco, and Ph. Bendjoya. In *36th. COSPAR Scientific Assembly*, July 2004, Paris, France.
- “Polarimetric Observations of Asteroids with the Torino UBVRI Photopolarimeter”, A. Cellino, R. Gil-Hutton, M. Di martino, E. F. Tedesco, and Ph. Bendjoya. In *Minor Bodies Studied by Polarimetry*, June 2003, Kharkiv, Ukraine.
- “Near infrared spectroscopy of TNOs, Centaurs and comet nuclei”, J. Licandro, H. Campins, J. de Leon Cruz, R. Gil-Hutton and L. M. Lara-Lopez. *35th Annual Meeting of the Division for Planetary Sciences of the A.A.S.*, 2003, United States.
- “Effects of the Collisional Evolution on Kuiper Belt Objects”, R. Gil-Hutton. In *XI Coloquio Brasileiro de Dinámica Orbital*, November 2002, Vicosá, Brasil. (Invited talk).
- “NICS@TNG Near Infrared Spectroscopy of Hilda Asteroids”. J. Licandro and R. Gil-Hutton. In *Asteroids, Comets, Meteors 2002*, July 2002, Berlin, Germany.
- “The Surface of Trans-neptunian Objects, Centaurs and Comet Nuclei”. J. Licandro, H. Campins, R. Gil-Hutton, M. Di Martino, L. Lara, G. P. Tozzi, and C. Hergenrother. In *Asteroids, Comets, Meteors 2002*, July 2002, Berlin, Germany.
- “Opposition Polarimetry and Photometry of the Low Albedo Asteroid 419 Aurelia”. I. N. Belskaya, V. G. Shevchenko, Yu. S. Efimov, N. M. Shakhovskoj, Yu. G. Shkuratov, N. M. Gaftonyuk, R. Gil-Hutton, Yu. N. Krugly, and V. G. Chiorny. In *Asteroids, Comets, Meteors 2002*, July 2002, Berlin, Germany.
- “Observations of Cometary Nuclei from CASLEO”. F. Artigue, G. Tancredi, J. Fernández, R. Gil-Hutton, J. Licandro, M. Melita, and H. Rickman. In *X Reunión Regional Latinoamericana de Astronomía*, September 2001, Córdoba, Argentina.

- “Stars with Polarimetric Excess within 20 Parsecs of the Sun”. R. Gil-Hutton and P. Benavidez. In *X Reunión Regional Latinoamericana de Astronomía*, September 2001, Córdoba, Argentina.
- “NICS-TNG Infrared Spectroscopy Program of Outer Solar System Minor Planet Bodies”, J. Licandro, M. Di Martino, P. Tanga, G. P. Tozzi, H. Campins, L. M. Lara, and R. Gil-Hutton. In *Asteroids 2001: from Piazzì to the 3rd. Millennium*, June 2001, Palermo, Italy.
- “Polarimetric Albedo of Hungaria Asteroids: Preliminary Results”, R. Gil-Hutton and P. Benavidez. In *Asteroids 2001: from Piazzì to the 3rd. Millennium*, June 2001, Palermo, Italy.

● **Other Meetings Attendance:**

46 contributions in the following meetings (not listed previously):

- *IV Taller de Ciencias Planetarias*, Febrero 2008, San Juan, Argentina.
- *Reunión Anual de la Asociación Argentina de Astronomía*, September 2007, malargüe, Mendoza, Argentina.
- 38th Meeting of the AAS Division for Planetary Sciences 8-13 October 2006, Pasadena, USA.
- *Reunión Anual de la Asociación Argentina de Astronomía*, September 2006, Capilla del Monte, Córdoba, Argentina.
- *III Taller de Ciencias Planetarias*, March 2006, Colonia, Uruguay.
- *Asteroids, Comets, Meteors 2005*, August 2005, Búzios, Brazil.
- *Reunión Anual de la Asociación Argentina de Astronomía*, September 2004, San Juan, Argentina.
- *Primera Reunión sobre Astronomía Dinámica en Latino América*, September 2001, San Juan, Argentina.
- *Reunión Anual de la Asociación Argentina de Astronomía*, September 2000, Tafí del Valle, Tucumán, Argentina.
- *Segundo Taller de Ciencias Planetarias*, Universidad de la República, February 2000, Montevideo, Uruguay.
- *Asteroids, Comets, Meteors 1999*, July 1999, Cornell University, Ithaca, United States.
- *Primer Taller de Ciencias Planetarias*, Facultad de Ciencias Astronómicas y Geofísicas, Universidad Nacional de La Plata, February 1999, La Plata, Argentina.
- *Reunión Anual de la Asociación Argentina de Astronomía*, September 1997, San Juan, Argentina.

- *Reunión Anual de la Asociación Argentina de Astronomía*, September 1996, La Plata, Argentina.
- *First Italian Meeting of Planetary Science*, July 1996, Bormio, Italy.
- *VIII Reunión Regional Latinoamericana de Astronomía*, November 1995, Montevideo, Uruguay.
- *27th Annual Meeting of the Division for Planetary Sciences of the A.A.S.*, October 1995, United States.
- *Symposium Small Bodies in The Solar System and their Interactions with the Planets*, August 1994, Mariehamn, Islas Aland, Finland.
- *Reunión Anual de la Asociación Argentina de Astronomía*, September 1993, Buenos Aires, Argentina.
- *Workshop on Catastrophic Collisions*, June 1993, Gubbio, Italy.
- *IAU Symposium 160 Asteroids, Comets, Meteors*, June 1993, Belgirate, Italy.
- *Primer Taller de Proyectos Instrumentales Argentinos*, May 1993, Buenos Aires, Argentina.
- *VII Reunión Regional Latinoamericana de Astronomía*, November 1992, Viña del Mar, Chile.
- *Reunión Anual de la Asociación Argentina de Astronomía*, September 1992, Mar del Plata, Argentina.
- *IAU Symposium 155*, July 1992, Innsbruck, Austria.
- *International Workshop on Periodic Comets*, August 1991, Montevideo, Uruguay.
- *XXI IAU General Assembly*, July 1991, Buenos Aires, Argentina.
- *Reunión Anual de la Asociación Argentina de Astronomía*, September 1990, San Juan, Argentina.
- *VI Reunión Regional Latinoamericana de Astronomía*, October 1989, Gramado, Brazil.
- *Reunión Anual de la Asociación Argentina de Astronomía*, September 1988, Rosario, Argentina.

● **Professional Experience:**

- Titular Professor in charge of the course “Mecánica Celeste”, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, since August 2008.
- Titular Professor, Observatorio Astronómico Félix Aguilar, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, since March 2008.

- PhD Thesis advisor of Lic. Luis A. Mammana, Universidad Nacional de La Plata, Argentina, since March 2008.
- Member of the Scientific Committee of the Annual Meeting of the Asociación Argentina de Astronomía, Malargüe, Mendoza, September 2007.
- Member of the Organizing Committee of COSPAR Capacity Building Workshop on Planetary Science, July 23 - August 3, 2007, Montevideo, Uruguay.
- Chairman of the “Working Group on Physics of Minor Planets”, IAU Commission 15, since August 2006.
- Teacher in charge of the postgraduate course “Técnicas Avanzadas de Observación”, Departamento de Astronomía, Instituto de Física, Universidad de la República, Uruguay, March-April 2006.
- Member of the Comisión Asesora de Astronomía, Consejo Nacional de Investigaciones Científicas y Técnicas (Conicet), Main Board Resolution 2382/05.
- Member of the Carrera del Investigador Científico y Tecnológico of Consejo Nacional de Investigaciones Científicas y Técnicas (Conicet), Resolution 1079/05, as Investigador Independiente.
- Member of the Local Organizing Committee of IAU Symposium 229 “Asteroids, Comets, Meteors 2005”, August 2005, Búzios, Brazil.
- Member of the Cientific Committee of Complejo Astronómico El Leoncito (Casleo), as a representative of Universidad Nacional de San Juan, Argentina, May 2005 - present.
- Member of the Examination Committee of Ph.D. Thesis of Lic. René D. Duffard, Observatório Nacional, Ministério da Ciência e Tecnologia, Rio de Janeiro, Brazil, March 2005.
- Licenciante Thesis advisor of Ms. Paula Gabriela Benavidez, Universidad Nacional de San Juan, Argentina, 2002.
- Member of the Comité Gemini Argentina (Argentine Gemini Committee), as a representative of Universidad Nacional de San Juan, Argentina, August 2001- July 2004.
- Professor in charge of the course “Introducción al Procesamiento de Imágenes con IRAF”, Observatorio Astronómico Félix Aguilar, Universidad Nacional de San Juan, Argentina, August - September 1999.
- Professor in charge of the course “Astrometría y Fotometría CCD de Asteroides y Cometas”, Observatorio Astronómico Los Molinos, Ministerio de Educación y Cultura, Uruguay, February 1997.
- Visiting Professor, Departamento de Astronomía, Instituto de Física, Facultad de Ciencias, Universidad de la República, Uruguay, May 1994.

- Main Teaching Assistant, Observatorio Astronómico Félix Aguilar, Universidad Nacional de San Juan, Argentina, April 1993 - February 2008.
- Teaching Assistant, Observatorio Astronómico Félix Aguilar, Universidad Nacional de San Juan, Argentina, January 1991 - March 1993.
- Visiting Professor, Departamento de Astronomía, Instituto de Física, Facultad de Ciencias, Universidad de la República, Uruguay, November 1992.
- Research Assistant, Observatorio Municipal “Ciudad de Mercedes”, Mercedes, Buenos Aires, Argentina, March 1982 - December 1990.
- University Councils:
 - * Member of the Posgraduate Commission of the University Council, Universidad Nacional de San Juan, Argentina, July 2005 - June 2008.
 - * Member of the University Council, Universidad Nacional de San Juan, Argentina, May 2000 - June 2005.
 - * Member of the Research Commission of the University Council, Universidad Nacional de San Juan, Argentina, July 1999 - June 2005.
 - * Vice-President of the Research Commission of the University Council, Universidad Nacional de San Juan, Argentina, June 2001 - June 2002.
 - * Member of the Finances Commission of the University Council, Universidad Nacional de San Juan, Argentina, July 2002 - June 2005.

- **Subsidies:**

- from Secretaría de Ciencia y Técnica, Universidad Nacional de San Juan, Argentina, to the project “Propiedades Físicas Superficiales de Cuerpos menores del Sistema Solar” as Chairman of the research team (2008 - 2009).
- from Secretaría de Ciencia y Técnica, Universidad Nacional de San Juan, Argentina, to the project “Estudio Dinámico y Físico de Asteroides en Órbitas Cometarias” as Chairman of the research team (2006 - 2007).
- from Secretaría de Ciencia y Técnica, Universidad Nacional de San Juan, Argentina, to the project “Astrometría de Asteroides” as Co-Chairman of the research team (2003 - 2005).
- Academic support from Secretaría de Ciencia y Técnica, Universidad Nacional de San Juan, Argentina, to the project “Catálogo Estelar para Determinación de Diámetros de Asteroides Trans-neptunianos Mediante Ocultaciones”, as a member of the research team (2000-2001).
- from Secretaría de Ciencia y Técnica, Universidad Nacional de San Juan, Argentina, to the project “Astrofísica y Astrometría del Sistema Solar”, as a member of the research team (1997 - 1998).

- **Scientific Associations Membership:**

- Asociación Argentina de Astronomía, September 1988 - present.
- International Astronomical Union (IAU), July 2003 - present.

- **Developing Scientific Awareness:**

- Author of numerous articles published in magazines about astronomy.
- Professor in charge of different courses for amateur astronomers in Argentina and Uruguay since 1986.
- Lecturer in many public lectures since 1989.

- **Other activities:**

- Referee for the journals *Icarus*, *Astronomy and Astrophysics*, *Earth, Moon and Planets*, and *Planetary and Space Science* in many oportunities.