

# CURRICULUM VITAE

May 2022

- **Personal Information:**

- Name: Ricardo Alfredo Gil-Hutton
- ID No: DNI 12.817.030
- Date of Birth: November 24, 1958.
- Citizenship: Argentina.
- Married to: Claudia Virginia Albores
- Son’s Name: Juan Ignacio (born September 20, 1991).
- Present Address: Grupo de Ciencias Planetarias, Departamento de Geofísica y Astronomía, FCEFNU-UNSJ y CONICET, Av. José I. de la Roza oeste 590, J5402DCS, 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:**

- Published: 103 publications in total since 1988, here listed since 2003.
  - \* “The activity of comet C/2014 E2 (Jacques) from pre and post-perihelion images”, E. García-Migani, R. Gil-Hutton, R. García. *Planet. Space Sci.*, **218**, 105506, 2022.
  - \* “Polarimetric rotational curve of M-type asteroid (16) Psyche”, J. H. Castro-Chacón, R. Gil-Hutton, J. Ramírez Vélez, M. Reyes-Ruiz. *Planet. Space Sci.*, **213**, 105428, 2022.
  - \* “Photometry of four long-period comets”, R. S. Garcia, R. Gil-Hutton. *Planet. Space Sci.*, **206**, 105308, 2021.
  - \* “Dynamical classification of the asteroids in the Hungaria group: The objects affected by the exterior mean-motion resonance 2:3 with Mars”, J.A. Correa-Otto; M. Cañada-Assandri, R.S. García, N.E. Trógolo, A.M. Leiva, R. Gil-Hutton. *Icarus*, **367**, 114564, 2021.
  - \* “Size and Shape Constraints of (486958) Arrokoth from Stellar Occultations”, Buie, Marc W.; Porter, Simon B.; Tamblyn, Peter; Terrell, Dirk; Parker, Alex Harrison; Baratoux, David; Kaire, Maram; Leiva, Rodrigo; Verbiscer, Anne J.; Zangari, Amanda M.; Colas, François; Diop, Baidy Demba; Samaniego, Joseph I.; Wasserman, Lawrence H.; Benecchi, Susan D.; Caspi, Amir; Gwyn, Stephen; Kavelaars, J. J.; Ocampo Uría, Adriana C.; Rabassa, Jorge Skrutskie, M. F.; Soto, Alejandro; Tanga, Paolo; Young, Eliot F.; Stern, S. Alan; Andersen, Bridget C.; Arango Pérez, Mauricio E.; Arredondo, Anicia; Artola, Rodolfo Alfredo; Bâ, Abdoulaye; Ballet, Romuald; Blank, Ted; Bop, Cheikh Tidiane; Bosh, Amanda S.; Camino López, Matías Aarón; Carter, Christian M.; Castro-Chacón, J. H.; Caycedo Desprez, Alfonso; Caycedo Guerra, Nicolás; Conard, Steven J.; Dauvergne, Jean-Luc; Dean, Bryan; Dean, Michelle; Desmars, Josselin; Dieng, Abdou Lahat; Bousso Dieng, Mame Diarra; Diouf, Omar; Dorego, Gualbert Séraphin; Dunham, David W.; Dunham, Joan; Durantini Luca, Hugo A.; Edwards, Patrick; Erasmus, Nicolas; Faye, Gayane; Faye, Mactar; Ferrario, Lucas Ezequiel; Ferrell, Chelsea L.; Finley, Tiffany J.; Fraser, Wesley C.; Friedli, Alison J.; Galvez Serna, Julián; Garcia-Migani, Esteban A.; Genade, Anja; Getrost, Kai; Gil-Hutton, Ricardo A.; Gimeno, German N.; Golub, Eli Joseph; González Murillo, Giovanni Francisco; Grusin, Michael D.; Gurovich, Sebastian; Hanna, William H.; Henn, Santiago M.; Hinton, P. C.; Hughes, Paul J.; Josephs, John David, Jr.; Joya, Raul; Kammer, Joshua A.; Keeney, Brian A.; Keller, John M.; Kramer, Emily A.; Levine, Stephen E.; Lisse, Carey M.; Lovell, Amy J.; Mackie, Jason A.; Makarchuk, Stanislav; Manzano, Luis E.; Mbaye, Salma Sylla; Mbaye,

- Modou; Melia, Raul Roberto; Moreno, Freddy; Moss, Sean K.; Ndaiye, Diene; Ndaiye, Mapathe; Nelson, Matthew J.; Olkin, Catherine B.; Olsen, Aart M.; Ospina Moreno, Victor Jonathan; Pasachoff, Jay M.; Pereyra, Mariana Belen; Person, Michael J.; Pinzón, Giovanni; Pulver, Eduardo Alejandro; Quintero, Edwin A.; Regester, Jeffrey R.; Resnick, Aaron Caleb; Reyes-Ruiz, Mauricio; Rolfsmeier, Alex D.; Ruhland, Trina R.; Salmon, Julien; Santos-Sanz, Pablo; Santucho, Marcos Ariel; Sepúlveda Niño, Diana Karina; Sickafoose, Amanda A.; Silva, José S.; Singer, Kelsi N.; Skipper, Joy N.; Slivan, Stephen M.; Smith, Rose J. C.; Spagnotto, Julio C.; Stephens, Andrew W.; Strabala, Samuel D.; Tamayo, Francisco J.; Throop, Henry B.; Torres Cañas, Andrés David; Toure, Labaly; Traore, Alassane; Tsang, Constantine C. C.; Turner, Jake D.; Vanegas, Santiago; Venable, Roger; Wilson, John C.; Zuluaga, Carlos A.; Zuluaga, Jorge I. *Astron. J.*, **159**, 130, 2020.
- \* “Observational results for five short-period and five long-period comets”, R. S. García, R. Gil-Hutton and E. García-Migani. *Planet. Space Sci.*, **180**, 104779, 2020.
  - \* “Electrostatic dust transport on the terminator of atmosphereless bodies”, C. López-Sisterna and R. Gil-Hutton. *Planet. Space Sci.*, **180**, 104775, 2020.
  - \* “The Trans-Neptunian Object (84922) 2003 VS2 through Stellar Occultations”, Benedetti-Rossi, G.; Santos-Sanz, P.; Ortiz, J. L.; Assafin, M.; Sicardy, B.; Morales, N.; Vieira-Martins, R.; Duffard, R.; Braga-Ribas, F.; Rommel, F. L.; Camargo, J. I. B.; Desmars, J.; Colas, A. F.; Vachier, F.; Alvarez-Candal, A.; Fernández-Valenzuela, E.; Almenares, L.; Artola, R.; Baum, T. -P.; Behrend, R. Bérard, D.; Bianco, F. B.; Brosch, N.; Ceretta, A.; Colazo, C. A.; Gomes-Junior, A. R.; Ivanov, V. D.; Jehin, E.; Kaspi, S.; Lecacheux, J.; Maury, A.; Melia, R.; Moindrot, S.; Morgado, B.; Opatom, C.; Peyrot, A.; Pollock, J.; Pratt, A.; Roland, S.; Spagnotto, J.; Tancredi, G.; Teng, J. -P.; Cacella, P.; Emilio, M.; Feys, F.; Gil-Hutton, R.; Jacques, C.; Machado, D. I.; Malacarne, M.; Manulis, I.; Milone, A. C.; Rojas, G.; Sfair, R. *Astron. J.* , **159**, 159, 2019.
  - \* “Absolute colours and phase coefficients of trans-Neptunian objects: Correlations and Populations”, Alvarez-Candal, A.; Ayala-Loera, C.; Gil-Hutton, R.; Ortiz, J. L.; Santos-Sanz, P.; Duffard, R. *Mon. Not. Royal Astr. Soc.* , **488**, 3035, 2019.
  - \* “Polarimetric survey of main-belt asteroids.VII. New results for 82 main-belt asteroids”, C. López-Sisterna, E. García-Migani and R. Gil-Hutton. *Astron. Astrophys.*, **626**, A42, 2019.
  - \* “Lower atmosphere and pressure evolution on Pluto from ground-based stellar occultations, 1988–2016”, Meza, E.; Sicardy, B.; Assafin, M.; Ortiz, J. L.; Bertrand, T.; Lellouch, E.; Desmars, J.; Forget, F.; Bérard, D.; Doressoundiram, A.; Lecacheux, J.; Marques Oliveira, J.; Roques, F.; Widemann, T.; Colas, F.; Vachier, F.; Renner, S.; Leiva, R.; Braga-Ribas, F.; Benedetti-Rossi,

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- \* “The activity and dynamical evolution of quasi-hilda asteroid (457175) 2008 GO98”, E. García-Migani and R. Gil-Hutton. *Planet. Space Sci.*, **160**, 12, 2018.
  - \* “Stability criteria for wide binary stars harboring Oort Clouds”, M. F. Calandra, J. Correa-Otto and R. Gil-Hutton. *Astron. Astrophys.*, **611**, a73, 2018.
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  - \* “Cratering rate on Pluto produced by the inner trans-Neptunian population”, M. F. Calandra and R. Gil-Hutton. *Astron. Astrophys.*, **601**, a116, 2017.
  - \* “A new insight into the Galactic potential: A simple secular model for the evolution of binary systems in the solar neighbourhood”, J. Correa-Otto, M. F. Calandra and R. Gil-Hutton. *Astron. Astrophys.*, **600**, a59, 2017.
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- \* “A polarimetric study of asteroids: fitting phase-polarization curves”, A. Cellino, S. Bagnulo, R. Gil-Hutton, P. Tanga, M. Cañada-Assandri, and E. F. Tedesco. *Mon. Not. Royal Astr. Soc.* , **455**, 2091, 2016.
- \* “Asteroid polarimetry”, I. Belskaya, A. Cellino, R. Gil-Hutton, K. Muinonen, and Yu. Shkuratov. Capítulo del libro “**Asteroids IV**”, Space Science Series, University of Arizona Press, Tucson, 2015, pp. 151-163.
- \* “Pluto’s Atmosphere from Stellar Occultations in 2012 and 2013”, A. Dias-Oliveira, B. Sicardy, E. Lellouch, R. Vieira-Martins, M. Assafin, J. I. B. Camargo, F. Braga-Ribas, A. R. Gomes-Júnior, G. Benedetti-Rossi, F. Colas, A. Decock, A. Doressoundiram, C. Dumas, M. Emilio, J. Fabrega Polleri, R. Gil-Hutton, M. Gillon, J. H. Girard, G. K. T. Hau, V. D. Ivanov, E. Jehin, J. Lecacheux, R. Leiva, C. Lopez-Sisterna, L. Mancini, J. Manfroid, A. Maury, E. Meza, N. Morales, L. Nagy, C. Opitom, J. L. Ortiz, J. Pollock, F. Roques, C. Snodgrass, J. F. Soulier, A. Thirouin, L. Vanzi, T. Widemann, D. E. Reichart, A. P. LaCluyze, J. B. Haislip, K. M. Ivarsen, M. Dominik, U. Jorgensen, and J. Skottfelt. *Astrophys. J.* , **811**, 53, 2015.
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- \* “Asteroids”, A. Cellino, R. Gil-Hutton and I. Belskaya. Chapter of the book **Polarimetry of Stars and Planetary Systems**”, Cambridge University Press, 2015, pp. 360-378.
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- \* “A ring system detected around the Centaur (10199) Chariklo”, Braga-Ribas, F., Sicardy, B., Ortiz, J. L., Snodgrass, C., Roques, F., Vieira-Martins, R., Camargo, J. I. B., Assafin, M., Duffard, R., Jehin, E., Pollock, J., Leiva, R., Emilio, M., Machado, D. I., Colazo, C., Lellouch, E., Skottfelt, J., Gillon, M., Ligier, N., Maquet, L., Benedetti-Rossi, G., Gomes, A. Ramos, Kervella, P., Monteiro, H., Sfair, R., Moutamid, M. El, Tancredi, G., Spagnotto, J., Maury, A., Morales, N., Gil-Hutton, R., Roland, S., Ceretta, A., Gu, S.-H., Wang, X.-B., Harpsoe, K., Rabus, M., Manfroid, J., Opitom, C., Vanzi, L., Mehret, L., Lorenzini, L., Schneiter, E. M., Melia, R., Lecacheux, J., Colas, F., Vachier, F., Widemann, T., Almenares, L., Sandness, R. G., Char, F., Perez, V., Lemos, P., Martinez, N., Jorgensen, U. G., Dominik, M., Roig, F., Reichart, D. E., Lacluyze, A. P., Haislip, J. B., Ivarsen, K. M., Moore, J. P., Frank, N. R., y

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- \* “The first confirmation of V-type asteroids among the Mars crosser population”, Ribeiro, A. O., Roig, F., Cañada-Assandri, M., Carvano, J. M. F., Jasmin, F. l., Alvarez-Candal, A., and Gil-Hutton, R. *Planetary and Space Science*, **92**, 57, 2014.
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  - \* “The F-type Asteroids, with Small Inversion Angles o 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.

– Astrometric Publications:

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

#### • Main Contributions in Scientific Meetings:

- “The CASLEO polarimetric survey of the main asteroid belt”, R. Gil-Hutton. *12th. Moscow Solar System Symposium*, October 2021, Moscow, Russia.
- “Polarimetry in the planetary sciences”, R. Gil-Hutton. *XI Friends of Friends Meeting*, April 2021, Córdoba, Argentina. **Invited Talk**.
- “Polarimetría de cuerpos menores del Sistema Solar”, R. Gil-Hutton. *Quinto Coloquio Nacional de Polarización en Astronomía*, October 12-14, 2020, México DF, México. **Invited Talk**.
- “Asteroid polarimetry as a tool to distinguish rare taxonomic types”, I.N. Belskaya, S. Fornasier, G.P. Tozzi, R. Gil-Hutton, A. Cellino, K. Antonyuk, Yu. N. Krugly, A.N. Dvignopol, and S. Faggi. *European Planetary Science Congress 2017*, September 2017, Riga, Latvia.
- “Recent advances in asteroid polarimetry”, A. Cellino, E. Ammannito, S. Bagnulo, I.N. Belskaya, R. Gil-Hutton, P. Tanga, and E.F. Tedesco. *LX Congresso Società Astronomica Italiana*, May 2016, Rome, Italy.
- “A catalogue of asteroid polarization curves”, R. Gil-Hutton. *Asteroids, Comets, Meteors 2017*, April 2017, Montevideo, Uruguay.
- “Polarimetría de asteroides tipo V”, R. Gil-Hutton, C. López-Sisterna and M. F. Calandra. *VIII Taller de Ciencias Planetarias*, February 2016, Porto Alegre, Brasil.

- “Pluto’s Atmosphere from Stellar Occultations in 2012 and 2013”, A. Dias-Oliveira, B. Sicardy, E. Lellouch, R. Vieira-Martins, M. Assafin, J. I. B. Camargo, F. Braga-Ribas, A. R. Gomes-Júnior, G. Benedetti-Rossi, F. Colas, A. Decock, A. Doressoundiram, C. Dumas, M. Emilio, J. Fabrega Polleri, R. Gil-Hutton, M. Gillon, J. H. Girard, G. K. T. Hau, V. D. Ivanov, E. Jehin, J. Lecacheux, R. Leiva, C. Lopez-Sisterna, L. Mancini, J. Manfroid, A. Maury, E. Meza, N. Morales, L. Nagy, C. Opitom, J. L. Ortiz, J. Pollock, F. Roques, C. Snodgrass, J. F. Soulier, A. Thirouin, L. Vanzi, T. Widemann, D. E. Reichart, A. P. LaCluyze, J. B. Haislip, K. M. Ivarsen, M. Dominik, U. Jorgensen, and J. Skottfelt. *47th. Annual Meeting of the Division of Planetary Science, American Astronomical Society*, November 2015, Washington DC, United States.
- “Recent advances in asteroid polarimetry”, A. Cellino, E. Ammannito, S. Bagnulo, I. N. Belskaya, R. Gil-Hutton, and P. Tanga. *European Planetary Science Congress 2015*, September 2015, Nantes, France.
- “La región transneptuniana”, R. Gil-Hutton, Invited talk. *Reunión Anual de la Asociación Argentina de Astronomía*, September 2014, Córdoba, Argentina.
- “Asteroid Polarimetry”, R. Gil-Hutton. *Asteroids, Comets, Meteors*, June-July 2014, Helsinki, Finland.
- “Taxonomía de asteroides utilizando parámetros polarimétricos”, R. Gil-Hutton. *VII Taller de Ciencias Planetarias*, February 2014, Córdoba, Argentina.
- “Destruction of Binary Systems in the Transneptunian Belt”, Benavidez, P. G., Gil-Hutton, R., Campo-Bagatin, A., López Sisterna, C., y Cañada-Assandri, M. *Asteroids, Comets, Meteors 2012*, May 2012, Niigata, Japón.
- “Hacia una mejor calibración de la relación entre albedo y polarización”, R. Gil-Hutton and A. Cellino. *VI Taller de Ciencias Planetarias*, February 2012, Montevideo, Uruguay.
- “The CASLEO polarimetric survey of main belt asteroids: Updated results”, R. Gil-Hutton, A. Cellino, and M. Cañada-Assandri. *EPSC - DPS Join Meeting 2011*, October 2011, Nantes, France.
- “A Photometric And Astrometric Study Of The Trans-neptunian Object Orcus”, J. L. Ortiz, A. Cikota, S. Cikota, D. Hestroffer, A. Thirouin, N. Morales, R. Duffard, R. Gil-Hutton, P. Santos-Sanz, and I. de la Cueva. *42th Meeting of the AAS Division for Planetary Sciences*, October 2010, Pasadena, Estados Unidos.
- “Haumea’s buddies: the concern of water-ice surfaces in the TNb”, N. Pinilla-Alonso, J. Licandro, R. Gil-Hutton, y R. Brunetto. *IAU Symposium 263 “Icy Bodies of the Solar System”*, August 2009, Rio de Janeiro, Brazil.
- “Evolución colisional de TNOs con superficies de hielo”, R. Gil-Hutton. *IV Taller de Ciencias Planetarias*, February 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*, February 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 UBVR 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, Vicosa, 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 Piazzini 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:**

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

- *EPSC-DPS Joint Meeting 2019*, September 2019, Geneva, Switzerland.
- *Atmosphereless solar system bodies in the space exploration era*, June 2018, Kharkiv, Ucraina.
- *The transneptunian solar system*, March 2018, Coimbra, Portugal.
- *IX Taller de Ciencias Planetarias*, February 2018, La Plata, Argentina.
- *XV Latin American Regional IAU Meeting*, October 2016, Cartagena de Indias, Colombia.
- *Reunión Anual de la Asociación Argentina de Astronomía*, September 2016, San Juan, Argentina.
- *XI Scientific Meeting of the Spanish Astronomical Society*, Septiembre 2014, Teruel, España.
- *XIV Latin American Regional IAU Meeting*, November 2013, Florianópolis, Brazil.
- *Regolith on Solar System Bodies*, December 2010, Meudon, Francia.
- *Reunión Anual de la Asociación Argentina de Astronomía*, September 2010, Salta, Argentina.
- *V Taller de Ciencias Planetarias*, February 2010, La Plata, Argentina.
- *Reunión Anual de la Asociación Argentina de Astronomía*, September 2009, La Plata, Argentina.
- *Reunión Anual de la Asociación Argentina de Astronomía*, September 2008, San Juan, Argentina.
- *Asteroids, Comets, Meteors 2008*, July 2008, Baltimore, United States.
- *IV Taller de Ciencias Planetarias*, February 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:**

- Vice-president of Commission F4 (Asteroids, Comets & Transneptunian Objects), International Astronomical Union (IAU), 2021 - 2024.
- Head of the Planetary Science Group, Departamento de Geofísica y Astronomía, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, since October 2017.
- Vice-president of Commission 15 (Physical Study of Comets and Minor Planets), International Astronomical Union (IAU), 2012 - 2015.
- Director of Complejo Astronómico El Leoncito (CASLEO), Consejo Nacional de Investigaciones Científicas y Técnicas, May 2009 - July 2016 ( Res. 1175/09, 1383/09 and 222/12).
- Member of the Carrera del Investigador Científico y Tecnológico of Consejo Nacional de Investigaciones Científicas y Técnicas (Conicet), Resolution 1079/05, at present as Investigador Principal.
- Research advisor:
  - \* Research advisor of Dr. Marcela Cañada-Assandri as Investigador Asistente, Consejo Nacional de Investigaciones Científicas y Técnicas (Conicet), June 2014 to October 2017.
  - \* Research advisor of Dr. Jorge Correa-Otto as Investigador Asistente, Consejo Nacional de Investigaciones Científicas y Técnicas (Conicet), March 2015 to October 2018.
- PhD Thesis advisor:
  - \* PhD Thesis co-advisor of Lic. Romina Soledad García, Universidad Nacional de San Juan, since April 2016.
  - \* PhD Thesis advisor of Lic. Cecilia Andrea López Sisterna, Universidad Nacional de San Juan, April 2014 - March 2022.
  - \* PhD Thesis advisor of Lic. Esteban García Migani, Universidad Nacional de San Juan, April 2014 - March 2019.

- \* PhD Thesis advisor of Lic. María Florencia Calandra, Universidad Nacional de San Juan, June 2014 - November 2018.
  - \* PhD Thesis advisor of Lic. Marcela Cañada Assandri, Universidad Nacional de San Juan, September 2009 - August 2012.
  - \* PhD Thesis advisor of Lic. Luis A. Mammana, Universidad Nacional de La Plata, Argentina, March 2008 - December 2015.
- Master Thesis advisor:
- \* Master degree Thesis Advisor of Eng. Pablo Pereyra, Universidad Nacional de La Matanza, 2010-2013.
  - \* Master degree Thesis Co-advisor of Eng. Adolfo Marún, Universidad de Buenos Aires, March 2010 - April 2012.
- Licenciante Thesis advisor:
- \* Licenciante Thesis advisor of Ms. Aldana Terluk, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, 2022.
  - \* Licenciante Thesis advisor of Ms. Romina Soledad García, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, 2016.
  - \* Licenciante Thesis advisor of Mr. Esteban García Migani, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, 2014.
  - \* Licenciante Thesis advisor of Ms. Cecilia Andrea López Sisterna, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, 2014.
  - \* Licenciante Thesis advisor of Ms. María Florencia Calandra, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, 2014.
  - \* Licenciante Thesis advisor of Ms. Paula Gabriela Benavidez, Universidad Nacional de San Juan, Argentina, 2002.
- Examination Committees:
- \* Member of the Examination Committee of Ph.D. Thesis of Lic. Patricio Salvador Zain, Universidad Nacional de La Plata, Argentina, December 2021.
  - \* Member of the Examination Committee to select the Director of Instituto de Ciencias Astronómicas, de la Tierra y del Espacio (ICATE), CONICET-UNSJ, August 2019.
  - \* Member of the Examination Committee of Ph.D. Thesis of Lic. José Sergio Silva Cabrera, Observatório Nacional, Ministério da Ciência e Tecnologia, Rio de Janeiro, Brazil, May 2015.
  - \* Member of the Examination Committee to make a selection of new members of the Planetary Sciences and Stellar and Galactic Astrophysics Groups, Observatório Nacional, Ministério da Ciência, Tecnologia e Inovação, Rio de Janeiro, Brasil, October-November 2012.
  - \* Member of the Examination Committee of Ph.D. Thesis of Lic. Yamila Miguel, Universidad Nacional de La Plata, Argentina, February 2011.

- \* Member of the Examination Committee of Ph.D. Thesis of Lic. Paula Gabriela Benavidez, Universidad de Alicante, Alicante, España, October 2008.
  - \* Member of the Examination Committee of Master Thesis of Lic. Nancy Sosa Ibarra, PEDECIBA, Universidad de la República, Montevideo, April 2008.
  - \* 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.
- Other committees:
- \* Member of the evaluation committee of “Frontier Science 2019” projects of National Council of Science and Technology (CONACYT), México DF, México, March 2020.
  - \* Member of the Scientific Organizing Committee of the international conference “Atmosphereless solar system bodies in the space exploration era”, June 2018, Kharkiv, Ukraine.
  - \* Member of the Scientific Organizing Committee of the “Asteroids, Comets, Meteors”, April 2017, Montevideo, Uruguay.
  - \* Member of the Comisión Asesora de Grandes Instalaciones en Ciencia y Tecnología, Ministerio de Ciencia, Tecnología e Innovación Productiva, August 2011 - April 2012.
  - \* Member of the evaluation committee of Agencia Nacional de Investigación e Innovación (ANII), Montevideo, Uruguay, August 2012.
  - \* Member of the Consejo Asesor de Usuarios de la Oficina Gemini Argentina, Ministerio de Ciencia, Tecnología e Innovación Productiva, March 2009 - June 2010.
  - \* 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.
  - \* Member of the Comisión Asesora de Astronomía para Ingresos, Consejo Nacional de Investigaciones Científicas y Técnicas (Conicet), 2013.
  - \* Member of the Comisión Asesora de Astronomía, Consejo Nacional de Investigaciones Científicas y Técnicas (Conicet), 2006-2007 and 2011-2012.
  - \* Member of the Comisiones Evaluadoras de las Solicitudes a Becas Internas de Investigación y Creación Convocatoria 2011, CICITCA, Universidad Nacional de San Juan, May and June 2011.
  - \* 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 - May 2009.
  - \* Member of the Comité Gemini Argentina (Argentine Gemini Committee), as a representative of Universidad Nacional de San Juan, Argentina, August 2001- July 2004.
- Posgraduate courses:
- \* Professor in charge of the postgraduate course “La población de asteroides”, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, 2022.
  - \* Professor in charge of the posgraduate course “Procesamiento y análisis de datos astronómicos”, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, 2020.
  - \* Professor in charge of the posgraduate course “Polarimetry of solar system objects”, XXIII Ciclo de Cursos Especiais, Observatório Nacional, Ministério da Ciência e Tecnologia, Rio de Janeiro, Brazil, August 2018.
  - \* Professor in charge of the posgraduate course “Procesamiento avanzado de imágenes astronómicas”, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, 2017.
  - \* Professor in charge of the posgraduate course “Astrofísica del sistema solar”, Facultad de Ciencias Astronómicas y Geofísicas, Universidad Nacional de La Plata, second semester 2016.
  - \* Professor in charge of the posgraduate course “Métodos numéricos y simulaciones en astrofísica”, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, 2010-2013.
  - \* Professor of the posgraduate course “Aspectos teóricos y observacionales de las ciencias planetarias”, Facultad de Ciencias Astronómicas y Geofísicas, Universidad Nacional de La Plata, February 2010.
  - \* Professor in charge of the postgraduate course “La población de asteroides”, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, 2009.
  - \* Professor in charge of the postgraduate course “Astrofísica del sistema solar”, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, since 2009.
  - \* Professor in charge of the postgraduate course “Técnicas Avanzadas de Observación”, Departamento de Astronomía, Instituto de Física, Universidad de la República, Uruguay, March-April 2006.
- Undergraduate courses:
- \* Professor (Profesor Titular), Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, since August 2009.

- \* Professor (Profesor Titular) in charge of the undergraduate course “Mecánica Celeste”, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, August 2008 - Agosto 2009.
  - \* Member of the Local Organizing Committee of IV Taller de Ciencias Planetarias, San Juan, Argentina, February 2008.
  - \* Professor (Profesor Titular), Observatorio Astronómico Félix Aguilar, Facultad de Ciencias Exactas, Físicas y Naturales, Universidad Nacional de San Juan, March 2008 - August 2009.
- Other courses:
- \* Professor in charge of the course “Conociendo los Cielos I y II”, Facultad de Filosofía, Humanidades y Artes, Universidad Nacional de San Juan, August 2011.
  - \* Professor (IRAF Advisor) of COSPAR Capacity Building Workshop on Planetary Science, July 23 - August 3, 2007, Montevideo, Uruguay.
  - \* 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.
- Other activities:
- \* 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, since July 2005.
  - \* 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, and since July 2008.

- \* 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.

• **Research Subsidies:**

- from CONICET to the project “Procesos evolutivos en sistemas planetarios”, as Chairman of the research team, 2021-2023, PIP 112-202001-01227.
- from CICITCA, Secretaría de Ciencia y Técnica, U. N. S. J. to the project “Procesos evolutivos en sistemas planetarios”, as Chairman of the research team (2020-2021).
- from CICITCA, Secretaría de Ciencia y Técnica, U. N. S. J. to the project “Procesos evolutivos en sistemas planetarios”, as Chairman of the research team (2018-2019).
- from Secretaría de Ciencia, Tecnología e Innovación del Gobierno de la Provincia de San Juan to attend the ”Asteroids, Comets, Meteors 2017” meeting. Resolución SECITI 0078/17, March 2017.
- from CONICET to the project “Procesos evolutivos en sistemas planetarios”, as chairman of the research team, 2015-2017, PIP 112-201501-00525.
- from CONICET to the project “Propiedades Polarimétricas de las superficies asteroidales”, as chairman of the research team, 2012-2014, PIP 114-201101-00358.
- from CONICET to the project “Propiedades Polarimétricas de las superficies asteroidales”, as chairman of the research team, 2009-2011, PIP 114-200801-00205.
- 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 - 2010).
- 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:**

- Co-author of the book “Observando el cielo desde San Juan”, Universidad Nacional de San Juan, Editorial Brujas, 92 pages, 2019.
- 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 *Astrophysics and Space Science*, *Research in Astronomy and Astrophysics*, *Advances in Space Research*, *Icarus*, *Astronomy and Astrophysics*, *Earth, Moon and Planets*, *Planetary and Space Science*, *Meteoritics and Planetary Science*, *Monthly Notices of the Royal Astronomical Society*, *Publications of the Astronomical Society of the Pacific*, *The Astronomical Journal*, and *Boletín de la Asociación Argentina de Astronomía*.