

CURRICULUM VITAE

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1) UNIVERSITY DEGREES

- Licentiate in Astronomy (four years programme with one year final thesis) Faculty of Humanities and Sciences, Montevideo, Uruguay, 1989.
- Ph.D. in Astronomy, Uppsala Observatoty, Uppsala University, Sweden, 1993.
- Postgraduate Diploma in Cultural Management, Universidad de la República, 2015

2) PROFESSIONAL WORK

- Full Professor at the Dept. of Astronomy, Faculty of Sciences, Universidad del Uruguay, 2008 - present.
- Associated Professor at the Dept. of Astronomy, Faculty of Sciences, Universidad del Uruguay, 1993 - 2008.
- Director of Observatorio Astronómico “Los Molinos” (Ministerio de Educación y Cultura) 2004 - 2012
- Researcher Level II – Research National System (1999 – present).
- Scientific Advisor at the Planetarium in Montevideo, Uruguay (1996-2000)

3) PUBLICATION

International Journals or Proceedings of international meetings

1. "Lightcurve and Rotation Period of 40 Harmonia" (1987); Gallardo, T. and Tancredi, G.; *Rev. Mexicana Astronomia y Astrofísica.*, 15, 103-105.
2. "Photometric Program of Asteroids"; Tancredi, G. and Gallardo, T.(1987), Boletín de la XXXIII Reunión Anual de la Asociación Argentina de Astronomía, p. 361-368.
3. "Pole Determination of Five Asteroids"; Gallardo, T. and Tancredi, T. (1990); Proc. of "Asteroids, Comets and Meteors III", Eds. C.-I. Lagerkvist, H. Rickman, B.A. Lindblad and M. Lindgren, Uppsala, 1990, p. 87-90. (referado)
4. "Temporary Satellite Capture and Orbital Evolution of Comet P/Helin-Roman-Crockett"; Tancredi, G.; Lindgren, M. and Rickman, H. 1990; *Astronomy & Astrophysics*; 239, 375-380.

5. "The Capture of P/Helin-Roman-Crockett by Jupiter"; Tancredi, G. (1991); in *Nouveaux Developments en Planetologie Dynamique*, Eds. D. Benest, C. Froeschle and J.M. Petit, Nice, France, p. 273-279.
6. "A Comparison of two Pole Determination Methods for Asteroids"; Tancredi, G. and Gallardo, T.; *Astron. & Astroph.*, 242, 279-285.
7. "Photometric Observations of Asteroids 31 Euphrosyne, 118 Pheito, 13 Egeria, 196 Philomena and 471 Papagena"; Licandro, J.; Gallardo, T. and Tancredi, G. (1990); *Rev. Mexicana Astron. y Astrof.*, 21, 590-592.
8. "The angular momenta of the Pluto-Charon System: Considerations about its Origin"; Tancredi, G. and Fernández, J.A.(1991); *Icarus*, 93, 298.
9. "The vicinity of Jupiter: a region to look for comets"; Tancredi, G. and Lindgren, M. (1992); Proc. of "Asteroids, Comets and Meteors 91" (Eds. A. Harris and E. Bowell), Houston, Texas, p. 601-604. (referado)
10. "Twentieth century light curves and the nucleus of comet P/Tempel 2"; Rickman, H., Festou, M.C., Tancredi, G. and Kámel, L. (1992); Proc. of "Asteroids, Comets and Meteors 91" (Eds. A. Harris and E. Bowell), Houston, Texas, p. 509-512. (referado)
11. "The evolution of Jupiter family comets over 2000 years"; Tancredi, G. and Rickman, H. (1992); in Proc. of IAU Symposium 152 "Chaos, Resonance and Collective Dynamical Phenomena in the Solar System", Ed. S. Ferraz-Mello, Kluwer Acad. Press, p. 269-274. (referado)
12. "Monte Carlo simulations of Jupiter family evolution"; Rickman, H., Bailey, M.E., Hahn, G. and Tancredi, G. (1992); in "Periodic Comets", (Eds. J.A. Fernández and H. Rickman), Montevideo, Uruguay, p. 55. (referado)
13. "A search for comets encountering Jupiter - The connection to the dust stream detected by Ulysses"; Lindgren, M. and Tancredi, G. (1992); in 30th Liège International Astrophysical Colloquium, Belgium, p.121. (referado)
14. "Transfer probabilities between Jupiter and Saturn-family orbits: application to 1992AD = 5145"; Bailey, M.E.; Chambers, J.E.; Hahn, G.; Scotti, J. and Tancredi, G. (1992) in 30th Liege International Astrophysical Colloquium, Belgium, p. 285. (referado)
15. "Searching for comets encountering Jupiter: First campaign"; Tancredi, G. and Lindgren, M. (1994), *Icarus*; 107, 311-321.
16. "Lightcurves and pole determinations for asteroids 31 Euphrosyne, 196 Philomena and 471 Papagena"; Licandro, J.; Gallardo, T. and Tancredi, G. (1994), *Rev. Mexicana Astron. y Astrof.*, 28, 91-96.
17. "Thermochemistry of cometary nuclei: the Jupiter family case"; Tancredi, G., Rickman, H. and Greenberg, M. (1994), *Astron. & Astroph.*; 286, 659-682.
18. "Physical and dynamical evolution of Jupiter family comets: simulations based on the observed sample"; Tancredi G. (1994), *Planetary and Space Sciences*; 42, 421-433.
19. "The dynamical memory of Jupiter Family comets"; Tancredi G. (1995), *Astron. & Astroph.*; 299, 288-292.
20. "UESAC - The Uppsala-ESO Survey of Asteroids and Comets", Lagerkvist, C.-I., Hernius, O., Lindgren, M. and Tancredi, G. (1995), in *Proceedings of the Third International Workshop on Positional Astronomy and Celestial Mechanics* (ed. A. López Garcia et al.), Valencia, pp 9-18.
21. "Astrometry of outer Jovian satellites from the Uppsala-ESO Survey of Asteroids and Comets (UESAC)"; Hernius, O., Lagerkvist, C.-I., Lindgren, M., Williams, G.V. and Tancredi, G. (1996), *Astron. & Astroph. Suppl. Ser.*; 115, 295-296.
22. "Nuclear Magnitudes of Short-Period Comets," Fernandez, J. A.; Tancredi, G.; Licandro, J. (1996) *Rev. Mex. Astron. Astrof, Serie de Conferencias*, v. 4, p. 112 (abstract)
23. "Cometary Nuclei Close to Their Aphelia", Licandro, J.; Tancredi, G.; Lindgren, M.; Rickman, H.; Gil-Hutton, R., (1996) *Rev. Mex. Astron. Astrof, Serie de Conferencias*, v. 4, p. 115. (abstract)
24. "Chaotic Dynamics of Planet-Encountering Bodies", Tancredi, G.; Motta, V. (1996) *Rev. Mex. Astron. Astrof, Serie de Conferencias*, v. 4, p. 117 (abstract)
25. "Automatic NEOs Detection Using the Hough Transform", Ruetalo, M.; Tancredi, G (1996) *Rev. Mex. Astron. Astrof, Serie de Conferencias*, v. 4, p. 117 (abstract)
26. "Was SL-9 a Jupiter Family Comet or an Escaped Asteroid?" Tancredi, G.; Sosa, A. (1996) *Rev. Mex. Astron. Astrof, Serie de Conferencias*, v. 4, p. 118 (abstract)

27. "UESAC - The Uppsala-ESO survey of asteroids and comets", Lagerkvist, C.-I., Hernius, O., Lindgren, M. and Tancredi, G. (1996), *Earth, Moon & Planets*, 73, 267-274, and Small bodies in the solar system and their interactions with the planets (eds. H. Rickman and M. Valtonen), Kluwer, p. 267-274.
28. "Searching for comets encountering Jupiter: Second campaign observations and further constraints on the size of the Jupiter family population", Lindgren, M., Tancredi, G., Lagerkvist, C.-I. and Hernius, O. (1997), *Astron. & Astroph. Suppl. Ser.* 118, 293-301.
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35. "Chaotic dynamics of planet-encountering bodies", Tancredi G. (1998), *Celestial Mechanics*, 70, 181-200.
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38. "Dynamical Taxonomy of Comets and Asteroids based on the Lyapunov Indicator: An Analysis of the Relevance of Splittings", Tancredi G., Motta V. and Froeschlé, C. (2000), *Astron. & Astroph.* 356, 339-346.
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43. "A comparison between methods to calculate Lyapunov exponents", Tancredi G., Sanchez A., Roig, F., (2001), *Astron. J.*, 121, 1171-1179.
44. "The activity of comet 29P/Schwassmann-Wachmann 1 monitored through the CO J(2-1) radio line", Festou M., Gunnarson M., Winnberg A., Rickman H., Tancredi G. (2001), *Icarus*, 150, 140-150.
45. "Size and Fraction of Active Surface Area of Some Jupiter Family Comets: Implications with Respect to their Physical Evolution", Fernandez, J. A.; Tancredi, G.; Rickman, H.; Licandro, J. (2001), In IX Latin American Regional IAU Meeting, "Focal Points in Latin American Astronomy", *Rev. Mex. Astron. Astrof., Serie de Conferencias*, v. 11, p. 15. (abstract)
46. "Busca 97 and 98 - Uruguayan Search of Satellites, Asteroids and Comets", Tancredi G., Sosa A. (2001), In IX Latin American Regional IAU Meeting, "Focal Points in Latin American Astronomy", *Rev. Mex. Astron. Astrof., Serie de Conferencias*, v. 11, p. 17. (abstract)
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49. "A NEO Survey in the Southern Hemisphere B.U.S.C.A.", Tancredi G., Sosa A., Acosta E. and Ceretta A. (2001), In: "Proceedings of International Workshop on Collaboration and Coordination among NEO Observers and Orbital Computers", Ed. S. Isobe and Y. Asakura, Japan Spaceguard Association, 43-48.
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51. "Constraints to Uranus' Great Collision III: The Origin of the Outer Satellites", Brunini, A.; Parisi, M.; Tancredi, G. (2002), *Icarus*, 159, 166-177.
52. "Recovery and Follow-Up of Short-Arc Transneptunian Objects Using Statistical Ranging", Bowell, E.; Koehn, B. W.; Virtanen, J.; Muinonen, K.; Gravnik, M.; Tancredi, G. (2002) *Bulletin American Astron. Soc.*, v. 34, p.837. (abstract)
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59. "Charon: size and constraints on the atmosphere from a stellar occultation" B. Sicardy,, A. Bellucci, E. Gendron, F. Lacombe, S. Lacour, J. Lecacheux, E. Lellouch, S. Renner, S. Pau, F. Roques, T. Widemann, F. Colas, F. Vachier, N. Ageorges, O. Hainaut, O. Marco, W. Beisker, E. Hummel, C. Feinstein, H. Levato, A. Maury, E. Frappa, B. Gaillard, M. Lavayssi`ere, M. Di Sora, F. Mallia, G. Masi,, R. Behrend,, F. Carrier, O. Mousis, P. Rousselot, A. Alvarez-Candal, D. Lazzaro, C. Veiga, A.H. Andrei,, M. Assafin, D.N. da Silva Neto, R. Vieira Martins, C. Jacques, D. Weaver, J.-F. Lecampion, F. Doncel, T. Momiyama & G. Tancredi (2006), *Nature*, 439, 52-54.
60. "Nuclear Magnitudes and Size Distribution of Jupiter Family Comets", Tancredi, G.; Fernandez, J. A.; Rickman, H and Licandro, J. (2006), *Icarus* 182, 527-549.
61. "Actividades del Observatorio Astronómico Los Molinos" (2006), Tancredi G., Roland S., Salvo R., Benitez F., Ceretta A., Acosta E., en *Actas del Workshop sobre Astronomía Observacional en Argentina: Problemas y Perspectivas*, Asociación Argentina de Astronomía, p. 61-66.
62. "A New Fireball in Early April: A Possible Association with the Příbram Radiant" (2006) Tancredi G., *Meteoritics & Planetary Science*, 41, Supplement, 5269
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- "Caos en el Sistema Solar", G. Tancredi en “Caos en el Uruguay: ¿que hacen los investigadores uruguayos que trabajan en sistemas caóticos?” R. Markarián and G. Tancredi (Editors), Montevideo, Uruguay, 1997.
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- “El Rol de los Impactos en la Historia del Sistema Solar” (2010) En: Del Big Bang a las Civilizaciones. Lemarchand, G. y Tancredi, G. (Eds.). Montevideo, UNESCO

Books

- “Caos en el Uruguay: ¿que hacen los investigadores uruguayos que trabajan en sistemas caóticos?” R. Markarián and G. Tancredi (Editors), Montevideo, Uruguay, 1997.
- “Del Big Bang a las Civilizaciones” Lemarchand, G. y Tancredi, G. (Eds.). Montevideo, UNESCO, 2010.

Scripts of Planetarium shows (registered at Asociación General de Autores de Uruguay):

- *"Misión a Marte"*, G. Zidán y G. Tancredi (1997)
- *"Cuatro Pasos con El Principito"*, E. Gaiero y G. Tancredi (1998)
- *"Historias del Universo según Qfwfq"*, M. Cultelli, A. Sánchez y G. Tancredi (1999)
- *"Guardianes del Espacio"*, M. Cultelli, A. Sánchez y G. Tancredi (2001)

4) PARTICIPATION IN SCIENTIFIC PROJECTS

- Project CONICYT-BID (National Research Council - Uruguay) "Physical and dynamical properties of comets and asteroids", 1994 - 1997. PI: J.A. Fernandez
- Project CONICYT-BID "Chaotics Dynamics in Hamiltonian Systems with applications to the Solar System", 1995 - 1997. PI: G. Tancredi
- Project C.S.I.C. - Universidad de la Republica "Chaotic Dynamics of the Solar System", 1995 - 1997. PI: J.A. Fernandez
- Project C.S.I.C. - Universidad de la Republica "Minor Bodies of the Solar System: Population, Dynamical Evolution and its Cosmogonic Relevance", 2000 - 2002. PI: J.A. Fernandez.
- Project CONICYT-"Clemete Estable Fund" "A Search of Comets and Asteroids in the Southern Hemisphere", 2001 - 2003. PI: G. Tancredi & A. Sosa
- Project C.S.I.C. - Universidad de la Republica "Operation of a Program to Search and Follow-up Asteroids and Comets", 2007- 2009 PI: G. Tancredi
- Project to show the scientific usefulness of Internet II (RedClara) – Remote operation of telescopes, RedClara – European Community, 2008-2009 PI: Gonzalo Tancredi
- "Caracterización de las poblaciones de cuerpos menores del sistema solar", ANII, PI: Tabaré Gallardo (2009-2011)
- "Sistema de nowcasting de irradiancia solar a partir de cámaras todo cielo", ANII – Fondo Sectorial de Energía, PI: G. Tancredi (2014-1015)
- "Ciencias Planetarias: Evolución física y dinámica de planetas y cuerpos menores", Grupos I+D, CSIC, UdelaR. Inv. Principales: G. Tancredi, J. A. Fernandez. (2015-2019).
- "Asteroides y Cometas como aglomerados", Fondo Clemente Estable, Inv. Principal: G. Tancredi (2015-2017)

5) PARTICIPATION IN CONFERENCES

Participation in more than 70 International Conferences in Europe, USA and LatinAmerica where I presented oral or poster contributions. In 11 times I participated as an invited lecturer and in 10 times I acted as Chairman of the scientific sessions.

6) MEMBERSHIP

Member of the:

- International Astronomical Union (Vice President Steering of Division F "Planetary Systems and Bioastronomy"; Working Group on Near-Earth Objects - WGNEO)
- American Astronomical Society
- Royal Astronomical Society of the UK
- Meteoritical Society
- American Geophysical Union
- Astronomical Society of the Pacific
- Asociación Latinoamericana de Geofísica Espacial
- Sociedad Uruguaya de Astronomía
- Sociedad Uruguaya de Física

5) SCIENTIFIC ACKNOWLEDGEMENTS

- Denomination of asteroid 5088 - 1979 QZ1 as Tancredi.
- President of the Local Organizing Comittee of the VIII Latinoamerican Regional Meeting.
- Discovery and right to nominate asteroid 6252 - Montevideo, in honor of my birthplace.

- Member of the Scientific Organizing Committee of the IX and X Latinoamerican Regional Meetings.
- Special mention in the "Caldeyro Barcia" Awards in Basic Science (Physics Area) 2000 (PEDECIBA-UNDP, Uruguay)
- President of Sociedad Uruguaya de Astronomía, 2002-2004.
- Secretary of Sociedad Uruguaya de Astronomía, 2005-2007.
- Member of the Board and Treasurer of Sociedad Uruguaya para el Progreso de la Ciencia y la Tecnología (SUPCYT) 2005 to present: Secretary (2009-2014), President (2015 to present).
- Discovery and right to nominate the first asteroids discovered from Uruguay: (68853) Vaimaca and (73342) Guyunusa.
- Participation in the draft of the resolution adopted in the XXVI General Assembly of the International Astronomical Union about the "Definition of a Planet in the Solar System" (August 2006).
- Secretary (2013-2015), VicePresident (2015-2018) of Division F Planetary Systems and Bioastronomy of the International Astronomical Union.

6) OUTREACH ACTIVITIES

The contribution can be divided in the following topics

1. Collaboration with organizations devoted to the Popularization of Science
 - Planetario Municipal de Montevideo
 - Asociación "Ciencia Viva"
 - Espacio Ciencia – LATU
 - Semana de la Ciencia y Tecnología
 - Science Museum
2. Activities in the Observatorio Astronómico Los Molinos and the Facultad de Ciencias
3. Collaboration with Primary and Secondary Education
4. Outreach projects
 - "Astrónomos por un fin de semana / Be an astronomer for a weekend" – 2009.
 - "Paseo de la Ciencia / Science Park" – 2010-2011.
 - "El Cielo Interactivo" 2013-2015.
 - Festival "Equinoccio", 2015
5. Outreach activities in the media

In the last 20 years I have been promoting an intense outreach activity in the press. We generally produce press reports; journalists on different astronomical topics frequently request us. As a summary of these activities I participated in more than 50 interviews or press articles, more than 100 interviews on radio and more than 50 on TV; consequently, I become one of the main references for the media on astronomical issues.

Montevideo, Uruguay, September 2015.