

# Luis Angel Gutiérrez Soto

## CURRICULUM VITAE

### PERSONAL INFORMATION

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*Nationality* Colombian  
*Phone* (+54) 9 2216818395  
*E-Mail* gsoto.angel@gmail.com — gsotoangel@fcaglp.unlp.edu.ar  
*GitHub* <https://github.com/AngelGSoto>  
*Website* <https://angelgsoto.github.io/>  
*Languages* Spanish (Native), English (Fluent), Portuguese (Fluent)

### EDUCATION

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**PhD in Astronomy** 2015-2019  
*Observatório do Valongo, Universidade Federal do Rio de Janeiro (UFRJ), Rio de Janeiro, Brazil*  
Advisors: Denise Rocha Gonçalves and Stavros Akras

**Master in science (Astrophysics)** 2012-2015  
*Centro de Radioastronomía y Astrofísica (CRYA), Universidad Nacional autónoma de México (UNAM), Morelia, Michoacán, México*  
Advisor: William John Henney

**Bachelor of Education in Mathematics and Physics** 2005-2010  
*Universidad Popular del Cesar (UPC), Valledupar, Cesar, Colombia*  
Advisor: Elio Fabio Mejía Henao

### ACADEMIC CERTIFICATIONS

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**Superior Normalist with Emphasis in Spanish Language** 2003-2004  
*Escuela Normal Superior María Inmaculada, Manaure, Cesar, Colombia*

### ADDITIONAL EDUCATION

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**Spectral Synthesis of Stellar Populations in Galaxies.**  
**Short-term course** 2024  
*Facultad de Ciencias Astronómicas y Geofísicas – UNLP, La Plata, Argentina*

**Third Winter School of the Valongo Observatory.**  
**Short-term course** 2017  
*Observatório do Valongo, UFRJ, Rio de Janeiro, Brazil*

**XX Special Courses Cycle of the National Observatory.**  
**Short-term course** 2015  
*Observatório Nacional, Rio de Janeiro, Brazil*

## ACADEMIC AND PROFESSIONAL PROFILE

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### Postdoctoral Researcher

2022-Present

*Instituto de Astrofísica de La Plata,  
CONICET – UNLP, La Plata, Argentina*

Supervisor: Favio R. Faifer

Co-supervisor: Claudia Lucia Mendes de Oliveira

### Postdoctoral Researcher

2020-2022

*Instituto de Astronomia, Geofísica e Ciências Atmosféricas (IAG),  
Universidade de São Paulo, Brazil*

Supervisor: Claudia Lucia Mendes de Oliveira

## ACADEMIC SERVICE

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- **Member, Judging Committee:** 37th UFRGS Scientific Initiation Salon (Salão UFRGS 2025). Universidade Federal do Rio Grande do Sul, Brazil. October 2025.
- **Member, Local Organizing Committee (LOC):** XI La Plata International School: "Machine Learning and Deep Learning Techniques in Large Multi-band Photometric Surveys (S-PLUS)". FCAG-UNLP, Argentina. April 7-9, 2025.

## TEACHING

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### Assistant Professor

2016

*Stellar Evolution, University level,  
Observatório do Valongo, UFRJ, Rio de Janeiro, Brazil*

### Assistant Professor

2016

*Extragalactic Astronomy, University level,  
Observatório do Valongo, UFRJ, Rio de Janeiro, Brazil*

### Mathematics and Physics Teacher

2010

*Centro de Enseñanza Media "Santa Teresita", High School,  
Valledupar, Cesar, Colombia*

### Mathematics and Physics Teacher

2009

*Institución Educativa Manuel Germán Cuello, High School,  
Valledupar, Cesar, Colombia. Pedagogical and Educational  
Practices of the Bachelor's Degree in Mathematics and Physics*

## OBSERVATIONAL EXPERIENCE

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### PI

2022

*SOAR Telescope*

Spectroscopic confirmation of planetary nebula candidates in VPHAS+ (DR3) and ALLWISE, impacting Galaxy's PNe statistics

### Telescope Operator

2020-2024

*T80-Sur Telescope, Southern Photometric Local Universe Survey (S-PLUS)*

Responsibilities included telescope operation, data acquisition, and instrument maintenance

## MENTORSHIP AND SUPERVISION

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### Scientific Initiation

2023-Present

*Débora Brandão dos Santos*

Early-type star-forming galaxies in the Fornax cluster and the S-PLUS survey. Observatório do Valongo, Universidade Federal do Rio de Janeiro.

Role: Co-supervisor

### Scientific Initiation

2020-2024

*Giovanna Liberato César*

The identification and optical follow-up spectroscopy of PN and SySt candidates in photometric surveys. Observatório do Valongo, Universidade Federal do Rio de Janeiro.

Role: Co-supervisor

## PARTICIPATION IN UNDERGRADUATE THESIS COMMITTEES

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On February 27, 2024, I served as a member of the evaluation committee for the undergraduate thesis titled “*Photometric Selection and Spectroscopic Confirmation of Planetary Nebulae and Symbiotic Stars in the Galactic Plane*”, presented by Giovanna Liberato César at the Observatório do Valongo, Universidade Federal do Rio de Janeiro.

## PEER REVIEW ACTIVITIES

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- **Frontiers in Astronomy and Space Sciences** - Peer reviewer
- **Galaxies** - Peer reviewer
- **IJECE** - Peer reviewer (topics: ML in scientific data)

## RESEARCH VISITS

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Observatório do Valongo, Universidade Federal do Rio de Janeiro (UFRJ).

2024

*Rio de Janeiro, Brazil*

Host: Denise Rocha Gonçalves and Marco Grossi

Center for the Study of the Physics of the Cosmos of Aragón (CEFCA).

2018

*Teruel, Spain*

Host: Carlos López Sanjuan

## AWARDS AND TITLES

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Young Researcher and Innovator

“Virginia Gutiérrez de Pineda”

2010

*Colciencias, Colombia*

## SKILLS

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- **Programming:** PYTHON, FORTRAN
- **Software:** TOPCAT, ALADIN, CLOUDY, L<sup>A</sup>T<sub>E</sub>X, GITHUB
- **Data Query:** Astronomical Data Query Language (ADQL)
- **Machine Learning:** Applied to astronomy and astrophysical simulations
- **Linux:** Development and maintenance of data analysis servers, task automation, system monitoring
- **Shell Scripting:** Automation of tasks
- **Astronomy:** Telescope operation, data processing, astronomical instrumentation
- **Experience:** Operated T80-Sul telescope for Southern Photometric Local Universe Survey (S-PLUS) project

## REFEREED ARTICLES

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1. *The S-PLUS Fornax Project (S+FP): An extragalactic catalog covering  $\sim 5$  virial radius around NGC 1399 with galaxy properties.*  
R. F. Haack, A. V. Smith Castelli, L. Sodr  Jr., C. Mendes de Oliveira, A. R. . Lopes, **L. A. Guti rrez-Soto** et al., 2025, Submitted to *A&A*.
2. *Variables in S-PLUS. I. Period–Luminosity relations of Classical Cepheids in 12 bands.*  
Debasish Hazarika, Carlos E. Ferreira Lopes, M rcio Catelan, Felipe Almeida-Fernandes, Nicol s Rodriguez-Segovia, ... **L. A. Guti rrez-Soto** et al., 2025, Submitted to *A&A*.
3. *Discovery of thirteen new symbiotic stars in Gaia DR3.*  
Stavros Akras, Anastasis Karagiannis, Giorgos Charalampopoulos, Panagiotis Gavras, **L. A. Guti rrez-Soto** et al., 2025, Under review, *MNRAS*.
4. *Targeting cluster galaxies for the 4MOST CHANCES Low-z sub-survey with photometric redshifts.*  
Hugo M ndez-Hern ndez, Ciria Lima-Dias, Antonela Monachesi, L. Yara Jaff , P. Christopher Haines, ... **L. A. Guti rrez-Soto** et al., 2025, Accepted, *A&A*.
5. *The Southern Photometrical Local Universe Survey (S-PLUS): searching for metal-poor dwarf galaxies.*  
M. Grossi, D. R. Gon alves, A. C. Krabbe, **L. A. Guti rrez-Soto**, E. Telles et al., 2025, *ApJ*, in press, arXiv:2501.18498.
6. *The S-PLUS Fornax Project (S+FP): Mapping emission in 77 Fornax galaxy members reaching  $\sim 4 R_{\text{vir}}$ .*  
A. R. Lopes, A. V. Smith Castelli, A. C. Krabbe, J. A. Hernandez-Jimenez, D. Pallero, ... **L. A. Guti rrez-Soto** et al., 2025, *A&A*, 699, A331.
7. *The S-PLUS Fornax Project (S+FP): Mapping globular cluster systems within 5 virial radii around NGC 1399.*  
L. Lom l -Nu  ez, A. Cortesi, A. V. Smith Castelli, M. L. Buzzo, Y. Divakara Mayya, ... **L. A. Guti rrez-Soto** et al., 2025, *AJ*, 169, 263.

8. *The S-PLUS 12-band photometry as a powerful tool for discovery and classification: ten cataclysmic variables in a proof-of-concept study.*  
Raimundo Lopes de Oliveira, Amanda S. de Araujo, Angela C. Krabbe, Claudia L. Mendes de Oliveira, Koji Mukai, **L. A. Gutiérrez-Soto** et al., 2025, *ApJL*, 981, L1.
9. *Mapping H $\alpha$ -excess candidate point sources in the Southern Hemisphere using S-PLUS data.*  
**L. A. Gutiérrez-Soto**, R. Lopes de Oliveira, S. Akas, D. R. Gonçalves, L. F. Lomelí-Núñez, et al., 2025, *A&A*, 695, A104.
10. *Stellar atmospheric parameters and chemical abundances of  $\sim 5$  million stars from S-PLUS multi-band photometry.*  
C. E. Ferreira Lopes, **L. A. Gutiérrez-Soto**, V. S. Ferreira Alberice, N. Monsalves, D. Hazarika, et al., 2025, *A&A*, 693, A306.
11. *The Fourth S-PLUS Data Release: 12-filter photometry covering 3000 square degrees in the Southern Hemisphere.*  
F. R. Herpich, F. Almeida-Fernandes, G. B. Oliveira Schwarz, E. V. R. Lima, L. Nakazono, ... **L. A. Gutiérrez-Soto** et al., 2024, *A&A*, 689, A249.
12. *The S-PLUS Fornax Project (S+FP): A first 12-band glimpse of the Fornax galaxy cluster.*  
A. V. Smith Castelli, A. Cortesi, R. F. Haack, A. R. Lopes, J. Thainá-Batista, ... **L. A. Gutiérrez-Soto** et al., 2024, *MNRAS*, 530, 3787.
13. *Unveiling compact planetary nebulae: broadband survey analysis and LAMOST confirmation.*  
**L. A. Gutiérrez-Soto**, M. Belén Mari, W. A. Weidmann, F. R. Faifer, 2024, *NewA*, 109, 102207.
14. *Euclid preparation. XXVII. A UV–NIR spectral atlas of compact planetary nebulae for wavelength calibration.*  
K. Paterson, M. Schirmer, Y. Copin, J.-C. Cuillandre, W. Gillard, **L. A. Gutiérrez-Soto** et al., 2023, *A&A*, 674, A172.
15. *Spectroscopic analysis tool for intEgraL fieLd unIt daTacubEs (SATELLITE): case studies of NGC 7009 and NGC 6778 with MUSE.*  
S. Akas, H. Monteiro, J. R. Walsh, J. García-Rojas, I. Aleman, ... **L. A. Gutiérrez-Soto** et al., 2022, *MNRAS*, 512, 2202.
16. *Data Release 2 of S-PLUS: accurate template-fitting based photometry covering 1000 square degrees in 12 optical filters.*  
F. Almeida-Fernandes, L. Sampedro, F. R. Herpich, A. Molino, C. E. Barbosa, ... **L. A. Gutiérrez-Soto** et al., 2022, *MNRAS*, 511, 4590.
17. *Catalogue of the central stars of planetary nebulae. Expanded edition.*  
W. A. Weidmann, M. B. Mari, E. O. Schmidt, G. Gaspar, M. M. Miller Bertolami, G. A. Oio, **L. A. Gutiérrez-Soto**, M. G. Volpe, R. Gamen, and D. Mast, 2020, *A&A*, 640, A10.
18. *J-PLUS: Tools to identify compact planetary nebulae in the Javalambre and Southern Photometric Local Universe Surveys.*  
**L. A. Gutiérrez-Soto**, D. R. Gonçalves, S. Akas, A. Cortesi, C. López-Sanjuan, M. A. Guerrero et al., 2020, *A&A*, 633, A123.
19. *The Southern Photometric Local Universe Survey (S-PLUS): improved SEDs, morphologies, and redshifts with 12 optical filters.*  
C. Mendes de Oliveira, T. Ribeiro, W. Schoenell, A. Kanaan, R. A. Overzier, ... **L. A. Gutiérrez-Soto** et al., 2019, *MNRAS*, 489, 241.

20. *J-PLUS: The Javalambre Photometric Local Universe Survey*.  
A. J. Cenarro, M. Moles, D. Cristóbal-Hornillos, A. Marín-Franch, A. Ederoclite, ... **L. A. Gutiérrez-Soto** et al., 2019, *A&A*, 622, A176.

## PREPRINTS

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1. *Bow shocks, bow waves, and dust waves. IV. Shell shape statistics*.  
W. J. Henney, J. A. Tarango-Yong, **L. A. Gutiérrez-Soto**, S. J. Arthur, 2019, arXiv:1907.00122.

## PUBLISHED WORKS IN CONFERENCE PROCEEDINGS

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1. *El pasado caótico de NGC 4546 vs. la evolución pacífica de sus estrellas*.  
J. P. Varela, V. Reynaldi, F. R. Faifer, **L. A. Gutiérrez-Soto**, T. Ricci, 2025, BAAA, 66, 266–268.
2. *Blue elliptical galaxies in the Fornax cluster through S-PLUS data*.  
D. Brandão, A. Cortesi, R. F. Haack, **L. A. Gutiérrez-Soto**, F. Ferrari, A. R. Lopes, A. V. Smith Castelli, P. A. Lopes, D. Brambilla, 2025, BAAA, 66, 301–304.
3. *Los colores del proceso de ensamble de las galaxias elípticas masivas: fotometría óptica e IR de NGC 1395*.  
A. Boland, F. Faifer, V. Reynaldi, **L. A. Gutiérrez-Soto**, C. Escudero, 2025, BAAA, 66, 305–308.
4. *S-PLUS: An atlas of integrated  $H\alpha$  +  $[N\ II]$  fluxes for planetary nebulae in the Magellanic Clouds*.  
**L. A. Gutiérrez-Soto**, A. R. Lopes, A. V. Smith Castelli, F. R. Faifer & R. Haack, 2024, BAAA, 65, 181.
5. *Ultra Diffuse Galaxy formation constraints and possible detection in S-PLUS images*.  
P. Astudillo Sotomayor, N. W. C. Leigh, R. Demarco, A. V. Smith Castelli, R. F. Haack, ... **L. A. Gutiérrez-Soto**, 2024, BAAA, 65, 244.
6. *Photometric candidate selection and spectroscopic confirmation of new PNe and SySts in the Galactic plane*.  
G. Liberato, D. R. Gonçalves, **L. A. Gutiérrez-Soto**, S. Akas, 2023, BAAA, 34, 100–103.
7. *Exploring the population of  $H\alpha$  emitters in the Southern Photometric Local Universe Survey (S-PLUS)*.  
**L. A. Gutiérrez-Soto**, R. Lopes de Oliveira, S. Akas, et al., 2023, BAAA, 64, 187.
8. *Identification of interacting galaxies in the S-PLUS database*.  
G. B. Oliveira Schwarz, N. M. Cardoso, A. Cortesi, A. V. Smith Castelli, G. Lucatelli, ... **L. A. Gutiérrez-Soto** et al., 2022, BAAA, 63, 259.
9. *Identifying Galactic halo PN candidates in the imaging surveys: J-PLUS/S-PLUS and J-PAS*.  
**L. A. Gutiérrez-Soto**, D. R. Gonçalves, S. Akas, A. Cortesi, A. Ederoclite, et al., 2017, Rev. Mex. Astron. Astrofís. (Serie Conf.), 49, 162.

## TALKS AND POSTERS AT SCIENTIFIC MEETINGS

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1. *Probing the Low-Surface-Brightness Universe with S-PLUS: Can a Small Telescope Compete?*  
**L. A. Gutiérrez-Soto** & S-PLUS Collaboration. Búzios, Brazil, 2025, Conference. Galaxy Memoirs: Inferring their past from their present. **Poster Presenter**.
2. *Unveiling the Hidden Population of H-alpha Excess Sources in the Southern Sky: A Synergy of S-PLUS Photometry and Machine Learning.*  
**L. A. Gutiérrez-Soto** & S-PLUS Collaboration. Córdoba, Argentina, 2025, Conference. XIV Friends of Friends Meeting. **Invited Speaker**.
3. *Mapping H $\alpha$ -Excess Candidate Point Sources in the Southern Hemisphere Using S-PLUS Data.*  
**L. A. Gutiérrez-Soto** & S-PLUS Collaboration. 19th S-PLUS Collaboration Meeting, 2024, Rio de Janeiro, Brazil. **Speaker**.
4. *An Integrated H $\alpha$  Flux Atlas of Planetary Nebulae in the Magellanic Clouds: Combining S-PLUS Photometry and Spectroscopic Analysis.*  
**L. A. Gutiérrez-Soto**, A. R. Lopes, A. V. Smith Castelli & F. R. Faifer. Montevideo, Uruguay, 2023. Conference. XVII Latin American Regional IAU Meeting. **Speaker**.
5. *S-PLUS: An atlas of integrated H $\alpha$  fluxes for planetary nebulae in the Magellanic Clouds.*  
**L. A. Gutiérrez-Soto**, A. R. Lopes, A. V. Smith Castelli, F. R. Faifer & R. Haack. San Juan, Argentina, 2023. Conference. La 65<sup>o</sup> Reunión Anual de la Asociación Argentina de Astronomía. **Poster Presenter**.
6. *S-PLUS: An atlas of integrated H $\alpha$  fluxes for planetary nebulae in the Magellanic Clouds.*  
**L. A. Gutiérrez-Soto**, A. R. Lopes, A. V. Smith Castelli & F. R. Faifer. La Serena, Chile. 2023, Conference. Galaxy Groups and Clusters III: Laboratories to study Galaxy Evolution (GGCIII). **Poster Presenter**.
7. *An atlas of integrated H $\alpha$  fluxes for planetary nebulae in the Magellanic Clouds.*  
**L. A. Gutiérrez-Soto**, A. R. Lopes, A. V. Smith Castelli & F. R. Faifer. Córdoba, Argentina, 2023, Conference. XII Friends of Friends Meeting. **Poster Presenter**.
8. *Exploring the population of H $\alpha$  emitters in the Southern Photometric Local Universe Survey (S-PLUS).*  
**L. A. Gutiérrez-Soto**, R. Lopes de Oliveira, S. Akas, et al., 2022, Conference. 64<sup>o</sup> Reunión Anual de la Asociación Argentina de Astronomía. **Speaker**.
9. *Revealing the population of compact emission line sources in the Southern Photometric Local Universe Survey (S-PLUS).*  
**L. A. Gutiérrez-Soto** & S-PLUS Collaboration. 17th S-PLUS Collaboration Meeting, 2022, Rio de Janeiro, Brazil. **Speaker**.
10. *H $\alpha$  emitters from the Southern Photometric Local Universe Survey (S-PLUS).*  
**L. A. Gutiérrez-Soto**, R. Lopes de Oliveira, S. Akas, D. R. Gonçalves, C. Mendes de Oliveira & S-PLUS Collaboration. 16th S-PLUS Collaboration Meeting, 2021, São Paulo, Brazil. **Poster Presenter**.
11. *Planetary nebulae in S-PLUS.*  
**L. A. Gutiérrez-Soto**, D. R. Gonçalves, S. Akas & S-PLUS Collaboration. 15th S-PLUS Collaboration Meeting, 2021, São Paulo, Brazil. **Speaker**.

12. *Planetary nebulae in S-PLUS*.  
**L. A. Gutiérrez-Soto**, D. R. Gonçalves, S. Akas & S-PLUS Collaboration. 14th S-PLUS Collaboration Meeting, 2020, São Paulo, Brazil. **Speaker**.
13. *Tools to identify planetary nebulae and symbiotic stars*.  
**L. A. Gutiérrez-Soto**, Denise R. Gonçalves, Stavros Akas and the J-PLUS & S-PLUS collaborations. 10th S-PLUS Meeting. 2019, São Paulo, Brazil. **Speaker**.
14. *Photometric tools to select planetary nebulae and symbiotic stars in J-PLUS and S-PLUS surveys*.  
**L. A. Gutiérrez-Soto**, Denise R. Gonçalves, Stavros Akas and J-PLUS & S-PLUS collaborations. II Workshop: chemical abundances in gaseous nebulae. 2019, São José dos Campos, São Paulo, Brazil. **Poster Presenter**.
15. *Detecting Galactic halo planetary nebulae and symbiotic stars in multi-band photometric surveys*.  
**L. A. Gutiérrez-Soto**, D. R. Gonçalves & S. Akas. XXXth General Assembly of the International Astronomical Union (IAU). Division G: Stars and Stellar Physics, 2018, Vienna, Austria. **Speaker**.
16. *Galactic halo planetary nebulae and symbiotic stars in multi-band photometric surveys*.  
**L. A. Gutiérrez-Soto**, D. R. Gonçalves & S. Akas. Workshop "Science with SOAR and Gemini telescopes: preparing for the GMT". 2018, São José dos Campos, São Paulo, Brazil. **Speaker**.
17. *S-PLUS, J-PLUS and J-PAS in the search for planetary nebulae*.  
**L. A. Gutiérrez-Soto**, D. R. Gonçalves, S. Akas, A. Cortesi, S. Daflon, et al. XLI Reunião Anual da Sociedade Astronômica Brasileira 2017, 2018, São Paulo, Brazil. Boletim da Sociedade Astronômica Brasileira, 30, no. 1, 158-159. **Poster Presenter**.
18. *Identifying Galactic halo PN candidates in the imaging surveys: J-PLUS/S-PLUS and J-PAS*.  
**L. Gutiérrez-Soto**, D. R. Gonçalves, S. Akas, A. Cortesi, A. Ederoclite, et al., Latin American Regional IAU Meeting (LARIM) Cartagena 2016, Cartagena de Indias, Colombia. *Rev. Mex. Astron. Astrofís. (Serie de Conferencias)*. **Poster Presenter**.
19. *A catalog of stationary bow shocks in the Orion Nebula*.  
**L. A. Gutiérrez-Soto**, W. J. Henney, J. A. Tarango-Yong, OSSF14: The Olympian Symposium on Star Formation, 2014, Paralia Katerini, Greece. **Poster Presenter**.

## PARTICIPATION IN OTHER EVENTS

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1. 3rd J-PLUS Virtual Meeting. 2020, Teruel, España.
2. 12th J-PAS Collaboration Meeting. 2016, Río de Janeiro, Brasil.
3. Frontiers in Contemporary Astrophysics. 2013, Morelia, México.
4. 9th Colombian Conference on Mathematics Education. 2008, Valledupar, Colombia.

## PUBLIC OUTREACH & SCIENCE COMMUNICATION

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1. **Noche de las Estrellas / Star Night** (2013)  
 Morelia, Mexico.  
*Organized astronomical observations and workshops for 500+ attendees.*

2. **Lotería Matemática / Math Bingo** (2013)  
 Universidad Michoacana de San Nicolás de Hidalgo, Mexico.  
*Designed and facilitated an educational math bingo game for high-school students.*
3. **El Universo en tu Escuela / Universe in Your School** (2013)  
 Pre-university program, Morelia, Mexico.  
*Organized and delivered astrophysics lectures to underserved schools.*
4. **Feria Matemática de Morelia / Morelia Science Fair** (2012)  
 Centro de Ciencias Matemáticas (UNAM), Mexico.  
*Volunteer: Developed hands-on activities on applied mathematics for public engagement.*

## COLLABORATIONS

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**S-PLUS Collaboration** 2015-Present  
*Southern Photometric Local Universe Survey (S-PLUS)*  
 Active member of the S-PLUS collaboration, contributing to the technical team as a telescope operator and data processor. Involved in data analysis and scientific exploitation of photometric data from the survey. Participated in projects focused on the identification of planetary nebulae and emission-line objects.

**J-PAS Collaboration** 2024-Present  
*Javalambre Physics of the Accelerating Universe Astrophysical Survey (J-PAS)*  
 Contributing to the scientific analysis and exploitation of J-PAS data, focusing on the detection and characterization of planetary nebulae and symbiotic stars. Responsible for photometric analysis and integration of multi-wavelength data.

## FINANCIAL SUBSIDIES

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**Consejo Nacional de Investigaciones Científicas y Técnicas, CONICET.** 2022  
*Postdoctoral Fellowship*

**Fundação de Amparo à Pesquisa do Estado de São Paulo, FAPESP.** 2020  
*Postdoctoral Fellowship*

**Coordenação de Aperfeiçoamento de Pessoal de Nível Superior, CAPES.** 2015  
*Doctoral Studies Fellowship*

**Dirección General de Asuntos del Personal Académico, DGAPA.** 2013  
*Master's Studies Fellowship*

**Departamento Administrativo de Ciencia, Tecnología e Innovación, COLCIENCIAS.** 2010  
*Research Stay Fellowship*