

UNIVERSITY OF PUERTO RICO
Cayey Campus
Department of Math and Physics
Cayey, PR 00736

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PROFESSIONAL PREPARATION

University of Massachusetts	Astrophysics	Ph.D.	1989	
University of Massachusetts	Astrophysics	M.S.	1987	
University of Puerto Rico	Physics	B.S.	1983	<i>Magna cum Laude</i>

APPOINTMENTS

2008-	Full Professor, and Coordinator of the Physics Program University of Puerto Rico at Cayey
1997-2008	Educational Officer and Director of the Arecibo Observatory Visitor and Educational Facility
1993-1996	Associate Professor, Department of Physics University of Puerto Rico, Mayaguez Campus
1990-1993	Assistant Professor, Department of Physics University of Puerto Rico, Cayey Campus
1986-1989	Research Assistant, Department of Astronomy University of Massachusetts
1983-1986	Teaching Assistant, Department of Astronomy University of Massachusetts

SYNERGISTIC ACTIVITIES

2014 -	Steering committee, Middle States Commission on Higher Education, UPR-Cayey
2012 -2014	EcoExploratorio (science museum), Board Member
2009-2012	College Board, Science Committee (PCMAS)
2009-2010	International Year of Astronomy, Local Organizing Committee (PR)
1999-2008	NASA Space Grant affiliate
2000-2007	NASA Living with a Star, workshop instructor
2003- 2004	McGraw-Hill, Technical Editor, "Física: Principios y Problemas"
2002 -2003	Physics staff, Development of a Distance Learning Program, UPR
1997-2003	Project Director, Angel Ramos Foundation Workshop for Science Teachers
1996-2003	Collaborative for Excellence in Teacher Preparation, member Inter-institutional Committee (CETP)
1995 -2002	Puerto Rico Statewide Systemic Initiative (PR-SSI), curriculum development
1996 -1997	Member, Academic Senate, University of Puerto Rico
1995 -1996	Alliance for Minority Participation (PR-AMP) Liaison officer

APPROVED PROPOSALS (1997-06)

2006	NASA Space Grant, Pseudoscience teacher workshops, \$20,000
2005	Angel Ramos Foundation Visitor Center Exhibit Upgrade, \$40,700
2003	National Science Foundation, Geoscience Education, \$ 598,000
2002	NASA Solar Heliospheric Observatory (SOHO) Exhibit - \$30,000
2002	Angel Ramos Foundation Workshop for Distinguished Science Teachers, \$75,000
2001	Angel Ramos Foundation Workshop for Distinguished Science Teachers, \$68,000
2001	Arecibo Observatory Student Outreach, Verizon Foundation, \$ 80,000
2000	Angel Ramos Foundation Workshop for Distinguished Science Teachers, \$35,000
2000	"A Scale Model of the Solar System", PR Space Grant (NASA), \$30,000
1999	"The Learning Center", Angel Ramos Foundation, \$267,000

- 1999 "A Hyperexhibit at the Arecibo Observatory", PI, O.P. and W.E. Edwards Foundation \$25,000
- 1999 "Angel Ramos Foundation Science Teacher Workshops", PI, 50 K
- 1999 Teacher in Residence, Puerto Rico Community Foundation, PI, \$6,000
- 1998 "A Day in the Life of the Arecibo Observatory", PI \$80,000
- 1997 "Arecibo Observatory Astronomy Teacher Workshop", PI, Dept. of Education, 35 K

PUBLICATIONS

1. Alonso, J., "Manual del Laboratorio de Astronomía", UPR Cayey, 150p, 2014.
2. Alonso J., Pantoja C., Isidro G., Bartus P., "*Touching the Moon and the Planets: Astronomy for the Visually Impaired Public*", in Astronomical Society of the Pacific 2007 Meeting, ASP Conference Series, vol. CS 389, 149p, 2008.
3. Alvarez, H. J., et al., "*La Investigación Científica en la Escuela Superior: Un Reto y una posibilidad*", 2006, Departamento de Educación, 212p (texto)
4. Ayala J., et al., "*An Undergraduate Research Project within the ALFALFA Collaboration.*" *Bulletin of the American Astronomical Society* 37.4 (2005) and the AAS 207th Meeting, January 8-12, 2006: Session 179.21.
5. Alonso J., and Lopez, J. R., 2005, "*Manual de Actividades para la Enseñanza de la Física*", Departamento de Educación. 121p.
6. "A Research Experience for High School Students at the Arecibo Observatory", Alonso, J., 118th Annual Meeting of the Astronomical Society of the Pacific, Baltimore MD, September 15-18., 2006
7. "*The Arecibo Geoscience Diversity Project: A Research Experience for Hispanics*", Mendez, N., Arbelo, J., Ramos M., Alonso, J., Escobar S., ACS Abstracts, Chemical Education, 861, Mar. 26, 2006
8. "*The Arecibo Geoscience Diversity Project Research Experience for Undergraduates*", Serrano, J., 26th Puerto Rico Interdisciplinary Scientific Meeting, Cayey, PR, March 11, 2006
9. "*Proyecto para la Diversidad de las Geociencias en Arecibo*", Acevedo, G., Alonso, J., Arbelo, J. and Ramos, M. L. 39th ACS Junior Technical Meeting & 24th PRISM, UPR-Humacao, March 12, 2005.
10. "*The Arecibo Geoscience Diversity Project*", Alonso J., Ramos, M., and Gonzalez, S., American Geophysical Union Fall Meeting, San Francisco, CA, Dec.13-17, 2004
11. "*Arecibo Geoscience Diversity Program*". Ramos, M. L., Alonso, J., Arbelo, J. and González, S., UPR 100th Anniversary Exhibit, Plaza Las Américas, Hato Rey, P.R. March 29 – April 4, 2004.
12. "*The Arecibo Geoscience Diversity Project*", Alonso J., Ramos, M., and Gonzalez, S., NSF Meeting of OEDG, Washington DC, March 3-5, 2004
13. 'NSF Award to Arecibo and UPR will aid Hispanic Students', Cornell Chronicle, June 12, 2003
14. "*UPRA impulsa las geociencias con acuerdo con la Universidad de Cornell*", Primera Hora newspaper article, May 30, 2003
15. "*Estímulos para Estudiar Geociencia*", El Nuevo Día newspaper, May 30, 2003
16. Alonso, J., Ortiz, A., and Ortiz E., 1998, "*Descubrimiento 9*", earth science text book for 9th grade, Ediciones Santillana, San Juan
17. "Science Content Standards", many authors, PR-SSI, Department of Education and Resource Center for Science and Engineering, University of Puerto Rico, 1996
18. Alonso et. al., 1996, *Assessment of University Physics in Puerto Rico*, in Conference on the Introductory Physics Course, John Wiley.
19. Alonso, et. al., 1996, "*Descubrimiento 5*", science text book for 5th grade, Ediciones Santillana, San Juan.
20. Energízate!, co-author, Student Activity Guide for 7th grade, PR-SSI and Resource Center for Science and Engineering, University of Puerto Rico, 1996.
21. Halando y Empujando!, co-author, Student Activity Guide for 7th grade, PR-SSI and Resource Center for Science and Engineering, University of Puerto Rico, 1996.
22. "The Binary Pulsar", J.L. Alonso, *El Observador*, Dec, 1993, p. 3-5
23. "Astronomy Laboratory Manual, Alonso J. L., 1992, Cayey Univ. College.
24. Physics Laboratory Manual, Alonso J. L. and Parrilla J., 1992, Cayey University College.
25. "High Velocity Neutral Wind in T TAU", J. L. Alonso and A. Ruiz, 1992,
26. *Astrophysical Journal*, **394**, L57
27. "Hydrogen Line and Continuum Emission in Young Stellar Objects. Line Ratios and Physical Conditions", J. L. Alonso and J. Kwan, *Astrophysical Journal*, **356**, 662.

28. "Formation of Hydrogen Line and Continuum Emission in Young Stellar Objects", 1989, Ph.D. Dissertation, University of Massachusetts, Amherst.
29. "Hydrogen Line and Continuum Emission in Young Stellar Objects: Theoretical Results and Observational Constraints", J. L. Alonso and J. Kwan, 1989, *Astrophysical Journal*, **338**, 403.
30. "Hydrogen Line and Continuum Emission in Young Stellar Objects: Excitation Model", J. Kwan and J. L. Alonso, 1988, *Astrophysical Journal*, 330, 870.
31. "H I Line Emission in Young Stellar Objects", J.L. Alonso and J. Kwan, *Bulletin of the Astronomical Society*, 18, No. 4, 973.

COLLABORATORS

Altschuler, Daniel, Arecibo Observatory, National Astronomy and Ionosphere Center
Alvarez Héctor J., Resource Center for Science and Engineering, University of Puerto Rico
Arce, Josefina, Resource Center for Science and Engineering, University of Puerto Rico
López, Jose R., Department of Physics, University of Puerto Rico at Mayaguez
Ortiz, Alida, Department of Biology, University of Puerto Rico at Humacao
Ortiz, Edgardo, Department of Biology, University of Puerto Rico at Humacao
Pantoja, Carmen, Department of Physics, University of Puerto Rico at Río Piedras
Ramos, Maiella, Department of Chemistry and Physics, University of Puerto Rico at Arecibo

GRADUATE ADVISOR

Kwan, John, Department of Astronomy, University of Massachusetts at Amherst

THESIS ADVISOR

Díaz, Juan, M.S., 1996, Cayey University College
Leal, Edberto, M.S., 1997, UPR, Mayaguez
Quijano, Alberto, M.S., 1997, Universidad de Nariño, Colombia
Roura, Erick, M.S., 1995, Department of Physics, University of Puerto Rico at Mayaguez

PANELIST FUNCTIONS

2006 NSF, Laser Interferometer Gravitational Wave Observatory (LIGO), annual review board
2005 NSF, Opportunity for Enhancing Diversity in Geosciences (OEDG), proposal review panel
2004 NSF, Center for Integrated Space Weather Modeling (CISM), annual review board
2003 NSF, National Radio Astronomy Observatory (NRAO), management review board

CONFERENCE PRESENTATIONS

2000-2010 40 talks