

ALESSANDRA ABE PACINI, PHD

Curriculum Vitae

NorthWest Research Associates

alepacini@nwra.com • +1 (703) 209-88517 • <https://www.oquedizafisica.com/alepacini/cv>

In the last 18 years, Dr. Pacini has been involved in scientific investigations of solar activity phenomena and its influences and signatures in the Heliosphere and Earth's environment (ionosphere, stratosphere and troposphere). Dr. Pacini has considerable experience carrying out collaborative and independent research in Solar/Heliophysics, applying a variety of observational and experimental techniques in association with numerical and analytical modeling. Dr. Pacini has developed a robust experience in lecture preparation as well as mentoring undergraduate and graduate students inside and outside the classroom (advising their scientific/ academic research), also focusing on spreading quality scientific information to underrepresented groups, motivating girls in STEM and promoting gender equality in the Space Physics area. Dr. Pacini is an early-career scientist that brings from Brazil considerable experience coordinating funded projects with international collaborators and students' participation as well as grant submissions in the USA to NASA and NSF.

Professional Preparation

University of Oulu	Finland	Physical Sciences	Ph.D.	2015
National Institute for Space Research (INPE)	Brazil	Space Geophysics	Ph.D.	2010
National Institute for Space Research (INPE)	Brazil	Space Geophysics	M.S.	2006
Mackenzie University	Brazil	Physics	B.Sc.	2003

Appointments

2020- <i>present</i>	Support Scientist	NWRA, USA.
2019-2020	Affiliate Scientist	NWRA, USA.
2018-2019	Research Associate	Arecibo Observatory, Puerto Rico.
2016-2018	Space Weather Physicist	JHU/APL, USA.
2016- <i>present</i>	CEO	InSpace, LLC, Puerto Rico.
2010-2016	Tenured Associate Professor	UNIVAP, Brazil.
2008-2009	Assistant Professor	UERJ, Brazil.
2007-2008	Assistant Professor	IFRJ, Brazil.
2003-2004 and 2008	Visiting Scientist	Brazilian Antarctic Station EACF.

Refereed Publications

(The * indicates the publications resulting from investigations performed by undergrad/graduate students under Dr. Pacini's supervision). **h-index: 10 #citations: 354: [Link to Google Scholar](#)**

01. **Pacini, A.A.**, S. Raizada, PK Manoharan, P. Perillat, GRL (In Preparation) 2020
02. *Kenny, M. and **Pacini, A.A.**, Monthly Notices (In Preparation) 2020
03. Raizada S., **Pacini, A.A.**, D. Phanikumar Science (submitted) 2019
04. Vieira, C. L. Z., Janot-Pacheco, E., Lage, C., **Pacini, A.A.**, Koutrakis, P., Cury, P. R., Shaodan, H., Pereira, L. A., Saldiva, P. H. N. Environmental Research Letters, 13 (2), 2018.
05. **Pacini, A.A.** RBEF, 39 (1), e1306, 2017.

06. *Lorensi, C., **Pacini, A.A.** Revista UNIVAP, 22 (39), 116-125, 2016.
 07. *Silva, J.E., Guerra Rosa, M.A., **Pacini, A.A.** Revista UNIVAP, 22 (39), 84-95, 2016.
 08. **Pacini, A.A.**, I.G. Usoskin, K. Mursula, E. Echer, H. Evangelista. Atmospheric Env., 113, 27-31, 2015.
 09. **Pacini, A.A.**, I.G. Usoskin. Solar Physics, 290 (3), 943-950, 2014.
 10. Selhorst, C. L., Costa, J. E. R., Giménez De Castro, C. G., Valio, A., **Pacini, A.A.**, Shibasaki, K. The Astrophysical Journal, v. 790, p. 134, 2014.
 11. Sampaio, M., Evangelista, H., d'Amore, R., Asad, N., Asad, L., Araújo, A., Brasil, A., Veissid, N., Vlassov, V., **Pacini, A.A.**, Fontoura, M. Journal of Aerospace Technology and Management, 6 (3), 219-230, 2014.
 12. *Oliveira, A.G., Rockenbach, M., **Pacini, A.A.** RBEF, 36 (2), 1-13, 2014.
 13. *Portugal, W. and **Pacini, A.A.** Revista UNIVAP, 19 (34), 21-26, 2013.
 14. Raulin, J.-P., Trotter, G., Kretzschmar, M., Macotela, E., **Pacini, A.A.**, Bertoni, F., Dammasch, I. JGR, V. 118, p. 570-575, 2012.
 15. **Pacini, A.A.**, Usoskin, I.G., Evangelista, H., Echer, E., De Paula, R. Advances In Space Research, V. 48, P. 811-818, 2011.
 16. Leppänen, A.-P., **Pacini, A.A.**, Usoskin, I.G., Aldahan, A., Echer, E., Evangelista, H., Klemola, S., Kovaltsov, G.A., Mursula, K., Possnert, G. JASTP, 72, P. 1036-1043, 2010.
 17. Raulin, J.-P., Bertoni, F., Gavilán, H. R., Guevara-Day, W., Rodriguez, R., Fernandez, G., Correia, E., Kaufmann, P., **Pacini, A.A.**, Stekel, T., Lima, W., Schuch, N., Fagundes, P. R., Hadano, R. J. Geophys. Res., 115, A07301, 2010.
 18. Raulin, J. P., **Pacini, A.A.**, Kaufmann, P., Correia, E., Martinez, A. G. JASTP, 68, 1029-1035, 2006.
 19. **Pacini, A.A.** and Raulin, J.-P. Journal Of Geophysical Research, V. 111, P. 9301, 2006.
 20. Raulin, J.-P and **Pacini, A.A.** Advances In Space Research, V. 35, P. 739-754, 2005.
 21. Raulin, J.-P., Makhmutov, V., Kaufmann, P., **Pacini, A.A.**, Luethi, T., Hudson, H S., Gary, D. Solar Physics, V. 223, P. 181-199, 2004.
 22. Raulin, J.-P., Kaufmann, P., Gimenez de Castro, C.G., **Pacini, A.A.**, Makhmutov, V., Levato, H., Rovira, M. The Astrophysical Journal, 592, 580–589, 2003.
- 50+ Presentations in National/International conference proceedings. Normally 4 National and Int'l per year.**

Synergistic Activities

01. Mentor of the UNOOSA Space4Women Network – 2020-present.
02. YouTube creator – channel O Que Diz a Fisica – 2019-present.
03. Chair of the organizing committee for AO Week and the New Arecibo Message – 2018-2019
04. Writer of the book series “Girls InSpace Collection” (E&PO project for 4-8th grades) – 2018.
05. Participant in the NASA Solar Week and Stories in Science projects – 2017-present.
06. Creation of the Interdisciplinary Practices Nucleus (NUPI) in the Engineering Faculty (FEAU) of the University of Vale do Paraiba (UNIVAP) – 2015.
07. Dept. Coordinator of the Basic Cycle of the Engineering Courses of FEAU/UNIVAP – 2015.
08. Webmaster of AGU-Space Physics and Aeronomy – 2019-present

Affiliations:

- member of AGU - American Geophysical Union (AGU/SPA current webmaster)
- member of SBF - Brazilian Physics Society
- member of ALAGE – Latin-American Space Geophysical Association (PR representative)
- member of SBGEA – Brazilian Space Geophysical Society
- member of AAAS – American Association for the Advancement of Science