

FICHA ACADEMICA

DATOS PERSONALES

Nombres y Apellidos

Omar Jesús Pérez Avendaño

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ESTUDIOS DE PREGRADO

Institución

Universidad Central de Venezuela

Título Obtenido: Ingeniero Geofísico

Año de Egreso: 1974

Área de conocimiento: Geofísica

ESTUDIOS DE POSTGRADO

Maestría

- Institución: Colorado School of Mines, Golden, USA
- Grado Obtenido: MS.c of Science
- Año de Egreso: 1977
- Área de Conocimiento:

- Institución: Columbia University
- Grado Obtenido: MS.c of Philosophy
- Año de Egreso: 1979
- Área de Conocimiento:

Doctorado

- Institución: Columbia University
- Grado Obtenido: Ph.D of Philosophy
- Año de Egreso: 1983
- Área de Conocimiento:

OTROS ESTUDIOS

Idiomas

Inglés – Español

EXPERIENCIA

Clasificación en el Escalafón Universitario

- Instructor
- Asistente
- Agregado
- Asociado
- Titular X
- S/Clasificación

Posición en la Institución

- Ordinario X
- Contratado
- Jubilado
- Invitado
- Otro

Como profesor de Postgrado

- Nombre del Postgrado : Maestría en Ciencias de La Tierra
- Institución: Universidad Simón Bolívar
- Nombre de las asignaturas, seminarios, talleres u otra actividad bajo su conducción:

PUBLICACIONES

- **O.J. Pérez & C.H.Scholz**, “Long term seismic behavior of the focal and adjacent regions of great earthquakes during the time between two successive shocks”, Journal of Geophysical Research – JGR, 1997.

- **O.J. Pérez, M. Jaimes, & E. Garcíacaro**, “Microseismicity evidence for subduction of the Caribbean plate beneath the South American plate in northwestern Venezuela”, Journal of Geophysical Research – JGR, 1997.

- **O.J. Pérez, M. Jaimes, & E. Garcíacaro** “Subducción de la placa del Caribe bajo la Sur Americana en el noroeste de Venezuela: Evidencias sismológicas”, Interciencia, 1997.

- **O.J. Pérez**, C. Sanz, & G. Lagos, "Microseismicity, tectonics and seismic potential in southern Caribbean and northern Venezuela", *Journal of Seismology*, 1997.
 - **O. J. Pérez**, "Seismological report on the Mw=6.8 strong shock of 9 July, 1997 in Cariaco, northeastern Venezuela", *Bulletin of the Seismological Society of America – BSSA*, 1998.
 - **O. J. Pérez** & J. Mendoza, "Sismicidad en Venezuela y Areas Vecinas", *Física de la Tierra*, 1998.
 - **O. J. Pérez**, "El Terremoto de Cariaco, Oriente de Venezuela, del 9 de Julio de 1997", *Interciencia*, 1998.
 - **O. J. Pérez**, "Revised world seismicity catalog (1950-1997) for strong ($M_s > 6$) shallow ($h < 70$ km) earthquakes", *Bulletin of the Seismological Society of America – BSSA*, 1999.
 - **O. J. Pérez**, "Kurile Islands Arc: First seismic cycle of great earthquakes during which a complete history of seismicity ($M_s > 6$) is observed", *Bulletin of the Seismological Society of America – BSSA*, 1999
- Otros, Congresos:
- **O.J. Pérez** & J. L. Alonso, "Microseismicity, tectonics and seismic potential of north central Venezuela and southern Caribbean", *Earth Observation System –EOS-*, 1995.
 - **O.J. Pérez**, "Present-day tectonics of western Venezuela and southwestern Caribbean", *Earth Observation System – EOS-*, 1995.
 - **O.J. Pérez**, "Seismotectonics of western Venezuela and southwestern Caribbean", *Annales Geophysicae*, 1996.
 - **O.J. Pérez**, "Seismicity ($h < 70$ km; $M_s > 7$) in the decades following very great shallow thrust earthquakes: Implications in seismic hazard evaluation", *Earth Observation System –EOS*, 1996.
 - **O.J. Pérez**, "Seismicity ($M_s > 7$) in the rupture zones of very great ($M_w > 8.5$) shallow ($h < 70$ km) earthquakes, in the decades before and after the main shock" *Annales Geophysicae*, 1997
 - **O.J. Pérez**, "Revised world seismicity catalog (1950-1997) for strong ($M > 6$) shallow ($h < 70$ km) earthquakes *Annales Geophysicae*" *Annales Geophysicae*, 1998
 - **O. J. Pérez**, "Earthquake prediction studies in Venezuela", *Proceedings Geoscience 98*, Keele Univ., England, 1998
 - **O. J. Pérez** & S.Wesnousky, "Oblique Slip and Slip Partitioning along the Boconó System, Western Venezuela", *Earth Observation System –EOS-*, 1998
 - **O. J. Pérez**, "A new GPS program to quantify slip rates on faults conforming the southern boundary of the Caribbean plate in northern Venezuela", *Annales Geophysicae*, 1999
 - **O. J. Pérez**, "Spatial-temporal-energy characteristics of seismicity occurring during the seismic cycle: a reappraisal", *Proc. IASPEI, IUGG meeting*, England, 1999
 - Sismotectónica del área del Caribe y occidente de Venezuela, *Boletín de Geología*, 7:4, 669-686, 1977 (with Freddy Fernández and José A. Rial)
 - Husid, R., A. F. Espinoza and O. J. Pérez, A study of strong ground motion from a set of Nicaraguan earthquakes and their relationship to damage, *Proc. VI World Conference on Earthquake Engineering*, 1, 946, Indian Society of Earthquake Technology, Ed. Sarita Prakashan, Meerut, India, 1977 (with Alvaro Espinoza and Raúl Husid)
 - Yakataga Gap, Alaska: Seismic History and Earthquake Potential, *Science*, 207,

1309-1314, 1980 (with Lynn R. Sykes and William R. McCann).

- Tectonic Model and Seismic Potential of the Eastern Gulf of Alaska and Yakataga Seismic Gap, *Journal of Geophysical Research*, **85**, 7132-7150, 1980 (with Klaus Jacob)

- St. Elias, Alaska, Earthquake of February 28, 1979: Tectonic Setting and Precursory Seismicity Pattern, *Bulletin of the Seismological Society of America*, **70**, 1995-1606, 1980 (with Klaus Jacob)

- Present-day Tectonics of the Southeastern Caribbean and Northeastern Venezuela, *Journal of Geophysical Research*, **86**, 10791-10804, 1981 (with Yash P. Aggarwal)

- Instrumentation and software development for the seismological network of Venezuela, *Proc. 15th International Symposium on Mini- and Macrocomputers*, **1**, 89-93, México City, México, 1981 (with Ricardo Suárez)

- A comprehensive study of the seismotectonics of the eastern Aleutian arc and associated volcanic system, *US Dpt. Energy, paper n° DE-ASO-76, Ero 3134*, 01-83, 1981 (with Klaus Jacob and 6 others)

- Heterogeneities of the Instrumental seismicity Catalogue for Strong Shallow Earthquakes, *Bulletin of the Seismological Society of America*, **74**, 669-686, 1984 (with Chris H. Scholz)

- Lack of Uniformity of Instrumental Data on Strong Earthquakes in Seismic catalogs (1904-1980), *Izv. Russ. Acad. Sci. Phys. Solid Earth (Engl. Trans.)*, **20**, 721-729, 1984

- Seismotectonics of western Venezuela and Southwestern Caribbean, *Annales Geophysicae*, **14**, 88-89, 1996

- Long Term Seismic Behavior of the Focal and Adjacent Regions of Great Earthquakes

During the Time Between two Successive Shocks, *Journal of Geophysical Research*, **102**, 8203-8216, 1997 (with Chris H. Scholz)

- Microseismicity Evidence for Subduction of the Caribbean Plate Beneath the South American Plate in Northwestern Venezuela, *Journal of Geophysical Research*, **102**, 17875-17882, 1997 (with two of my students)

- Subducción de la Placa del Caribe Bajo la Suramericana en el Noroeste de Venezuela: Evidencias Sismológicas, *Interciencia*, **22**, 131-137, 1997 (with two of my students)

- Microseismicity, Tectonics and Seismic Potential in Southern Caribbean and Northern Venezuela, *Journal of Seismology*, **1**, 15-28, 1997 (with two of my students)

- Seismological Report on The Mw=6.8 Strong Shock of 9 July, 1997 in Cariaco, Northeastern Venezuela, *Bulletin of the Seismological Society of America*, **88**, 874-879, 1998

- Sismicidad en Venezuela y Areas Vecinas, *Física de la Tierra, (Ed. Complutense, Madrid)*, **10**, 87-110, 1998

- El Terremoto de Cariaco, Oriente de Venezuela, del 9 de Julio de 1997, *Interciencia*, **23**, 101-110, 1998

- Revised World Seismicity Catalog (1950-1997) for Strong (Ms>6) Shallow (h<70 km) Earthquakes, *Bulletin of the Seismological Society of America*, **88**, 335-341, 1999

- Kuril Islands Arc: Two Seismic Cycles of Great Earthquakes During Which a Complete History of Seismicity is Observed, *Bulletin of the Seismological Society of America*, **90**, 1096-1100, 2000

- Velocity field across the Southern Caribbean plate boundary and estimates of Caribbean/South-American plate motion using GPS geodesy 1994-2000, *Geophysical Research Letters*, **28**, 2987-2990, 2001 (with Roger Bilham and five others)

- Velocidad relativa entre las placas del Caribe y Suramérica a partir de observaciones GPS en el norte de Venezuela, *Interciencia*, **26**, 69-74, 2001 (with Roger Bilham and five others)
- GPS estimate of relative motion between the Caribbean and South American plates, and geologic implications for Trinidad and Venezuela, *Geology*, **29**, 75-78, 2001 (with John Weber and five others)
- Alturas del Pico Bolívar y otras cimas andinas venezolanas a partir de observaciones GPS, *Interciencia*, **30**, 213-216, 2005
- GPS Height Determination of Peak Bolivar, Venezuela, *Survey Review*, **38**, 697-702, 2006 (with 6 others)
- Routine reporting of Mw by NEIC since 1992 induces an increment in the teleseismic reporting rate of strong shallow-depth earthquakes, *Bulletin of the Seismological Society of America*, in press, 2008

- Do areas of elevated background moment release along convergent plate boundaries constrain location and length of rupture of giant tremors?, submitted to *Journal of Geophysical Research*, 2006

Recent

Abstracts:

- Revised world seismicity catalog (1950-1997) for strong ($M > 6$) shallow ($h < 70$ km) earthquakes, European Geophysical Society EGS, 23th General Assembly, Nice, France, In: *Annales Geophysicae*, **16**, Spp. 1, pp. C125, 1998.
- Earthquake prediction studies in Venezuela, *Geoscience* **98**, Keele, U.K., In: Book of Abstracts, pp.16, 1998 (Invited Paper).
- Oblique slip and slip partitioning along the Boconó fault system, western Venezuela, American Geophysical Union AGU, Fall meeting, San Francisco, USA, In: EOS, Spp. vol. **79**, pp. S21A-09, 1998.

- A new GPS program to quantify slip rates on faults conforming the southern boundary of the Caribbean plate in northern Venezuela, European Geophysical Society EGS, 24th General Assembly, The Hague, Neetherlands, In: *Annales Geophysicae*, **17**, Spp. 1, 1999.

- Spatial-temporal-energy characteristics of seismicity occurring during the seismic cycle: A reappraisal, International Union of Geodesy and Geophysics IUGG, Birmingham, U.K., In: Book of Abstracts, paper ST1/E/45-A3 1230, 1999.

- Relative motion between the Caribbean and South-American plates from GPS observations in northern South-America and the Lesser Antilles, European Geophysical Society EGS, 26th General Assembly, Nice, France, In: *Annales Geophysicae*, **19**, Spp.1, 2001.

- GPS geodesy in southern Caribbean and Venezuela: Results from from observations in 1994/2000 and ongoing experiments, American Geophysical Union AGU, Spring Meeting, Washington DC, USA, In: EOS, Spp. vol. **83**, T31A-04, 2002.

- GPS geodesy in southern Caribbean: Results from observations in 1994/2000 and ongoing experiments for earthquake prediction, ERMERS Earthquake Mechanics, Earth Structure and Related Problems, Erice, Italy, In: Book of Abstracts, 2002 (Invited Paper).

- Seismic moment distribution of long-term foreshocks of great earthquakes, International Union of Geodesy and Geophysics IUGG, Sapporo, Japan, In: Book of Abstracts, paper 022015-1, 2003.