

**CURRICULUM VITEA
KARO MICHAELIAN**

*Instituto de Física,
Universidad Nacional Autónoma de México,
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Marzo, 2011

RFC: MIPK600305-T4A

LUGAR y FECHA de NACIMIENTO: Wakefield, Inglaterra, 5 de Marzo, 1960

NACIONALIDAD: Canadiense y Británico

DEPENDIENTES: Tres hijos

ESTADO MIGRATORIO: Inmigrado, FM2

DOMICILIO: Industria 60, Dept. # 6, Col. Folorida, Alvaro Obregón, 01030 D.F., México

IDIOMAS:

Inglés 100%, Español 90%, Alemán 50%

ESCOLARIDAD/EXPERIENCIA LABORAL:

1. Licenciatura en Geofísica, Universidad de Alberta, Canada, 1981.
2. Doctorado en Física Nuclear y Partículas, Universidad de Alberta, Canada, 1987.
3. Investigador Post-doctoral, Instituto Paul Scherrer, Suiza, 1988 - 1991.
4. Investigador Asociado "C", T.C., Instituto de Física, UNAM, México, 1991 - 1995.
5. Investigador Titular "A", T.C., Instituto de Física, UNAM, México, 1995 - 2001.
6. Investigador Titular "B", T.C., Instituto de Física, UNAM, México, 2001-.

RESUMEN DEL TRABAJO CIENTIFICO

1. 67 articulos en revistas internacionales (5 de ellos en *Phys. Rev. Lett.*)
2. 2 articulos publicados en el servidor web de revistas internacionales
3. 4 capitulos en libros
4. 10 articulos publicados en extenso
5. 60 platicas de investigacion invitados
6. 10 platicas de divulgacion invitados
7. 117 contribuciones a congresos
8. Estudiantes: 2 de doctorado, 3 de maestria, 4 de licenciatura

CITAS

1. 1531 en total hasta marzo 2011, (220 son auto citas)

2. 4 articulos con mas de 100 citas cada uno (dos de ellos con mas de 200 citas cada uno)
3. Indice H: 21

PREMIOS/DISTINCIONES

1. Beca del Estado de Alberta, Universidad de Alberta, Canada, 1978-1981.
2. Department of Mathematics, Universidad de Alberta, Canada, Premio “Outstanding Achievement in Mathematics”, 1980.
3. Asociación de Ingenieros, Geólogos, y Geofísicos Profesionales de Alberta, Canada, “Medalla de Oro”, 1981.
4. Grado de Licenciatura con mención honorífica en Geofísica, Universidad de Alberta, Canada, 1981.
5. Beca de Enseñanza de Postgrado, Universidad de Alberta, Canada : 1981 - 1983.
6. Beca de Investigación de Postgrado, Universidad de Alberta, Canada : 1983 - 1987.
7. Grado de Doctorado en Física Nuclear, Universidad de Alberta, Canada, 1987.
8. Sistema Nacional de Investigadores, Mexico, SNI Candidato, 1992.
9. PRIDE NIVEL C, 1992 - 1999.
10. Sistema Nacional de Investigadores, SNI Nivel I, 1993-1999.
11. Sistema Nacional de Investigadores, SNI Nivel II, 1999-2010.
12. PRIDE Nivel D, 1999-.
13. Premio “Jorge Lomnitz Adler 2002”, IFUNAM - Academia Mexicana de Ciencia.
14. Sistema Nacional de Investigadores, SNI Nivel III, 2010-.
15. Seleccionada por inclusion en el “Excyclopedia of Human Thermodynamics”, Hmolpedia
<http://www.eoht.info/page/Karo+Michaelian>, <http://www.eoht.info/page/HT+pioneers>

DISTINCIONES a PUBLICACIONES

1. **Structure and energetics of Ni, Ag, and Au nanoclusters**,
Phys. Rev. B **60** (1999)2000-2010. (170 citas)
 (a) Nominado por “Highlights in Nanotechnology (HN) Forum”
http://nano.pa.msu.edu/hn/forum/forum_entry.php?id=181
2. **A Physical Basis of Evolution and Speculation on an Evolutionary Basis of Physics**, Capitulo en
Topics in Contemporary Physics, p. 195-210, Ed. J. Heras, ISBN 970-18-3700-2, (2000).
 (a) Trabajo invitada para un libro en honor del Prof. Onofre Rojo, Esc. Sup. de Fis y Mat, IPN.
3. **Thermodynamic Stability of Ecosystems**,
J. Theo. Biol., **237** (2005) 323-335.
 (a) “most downloaded article” durante 02/2005 al 05/2005, de la revista *J. Theor. Biol.* de Elsevier.
 (b) Listed in “*Faculty 1000 of Biology Reports*” <http://www.f1000biology.com/article/id/1029237>
 (c) Listed in *Ecosystems: Webster’s Facts and Phrases*, Escrito por Icon Group International, Inc., Publicado por ICON Group International, Inc., 2008 ISBN 0546650511, 9780546650518

4. Thermodynamic dissipation theory for the origin of life

Earth Syst. Dynam., 2, 37-51, 2011.

Promovido en *European Geosciences Newsletter*, Issue #35 10 June 2011

<http://www.the-eggs.org/news.php?id=840&ctypeid=2>

ESTANCIAS de INVESTIGACION

5. Undergraduate Summer Student – TRIUMF Meson Research Facility, Vancouver, Canada, 07/1980 - 09/1980. Anfitrión: Dr. Dave Hutcheon.
6. Doctoral Student– TRIUMF Meson Research Facility, Vancouver, Canada, 03/1983 - 09/1986. Anfitrión: Dr. Peter Kitching.
7. Investigador Post-doctoral, Instituto Paul Scherrer, Suiza, 01/1988 - 03/1991. Anfitrión: Dr. Peter Ingram.
8. Estancia corto de Colaboracion, Massachusetts Institute of Technology (MIT), Boston, USA, 05/1990. Anfitrión: Dr. Bob Redwine.
9. Estancia corto de Colaboracion, CERN, Geneva, Suiza, 08/1990 - 09/1990. Anfitrión: Dr. Urs Senhauser.
10. Estancia corto de Colaboracion, Texas A&M y University of California at Berkely, 07/1995 - 07/1995. Anfitrión: J. B. Natowitz
11. Estancia corto de Colaboracion, Instituto de Fisica, Universidad Autonoma de San Luis Potosi, 02/1999 - 02/1999. Anfitrión: Dr. Faustino Aguilar.
12. Año Sabatico, Instituto de Fisica y Matematicas, Universidad Michoacana de San Nicolas de Hidalgo, Morelia, Michoacan, 03/2000 - 03/2001. Anfitrión: Dr. Jose Leonel Torres.
13. Estancia corto de Colaboracion, Facultad de Ciencias, Benemerita Universidad Autonoma de Puebla, 09/2001 - 09/2001. Anfitrión: Dr. Valery Poltev
14. Año Sabatico, Facultad de Ciencias, Universidad Autonoma del Estado de Morelos, 03/2007 - 03/2008. Anfitrión: Dr. Luis Manuel Gaggero.

FOMENTACION DE LA CULTURA CIENTIFICA EN MEXICO

1. Co-fundador (junto con Prof. A. Salinas Castellanos, Coordinador de Ciencias, Centro de Estudios Científicos y Tecnológicos CECYT, Numero 10, Instituto Politécnico Nacional) del programa;

Misioneros de la Ciencia: Difundiendo la Ciencia en las Escuelas de México, 2009-.

Propósito: Llevar la ciencia a las escuelas públicas y privadas de primaria, secundaria, y preparatoria, por investigadores de nivel internacional. Invitando, y ofreciendo ayuda, a los estudiantes a dar charlas en escuelas de nivel mas bajo, asi multiplicando el alcance del progrma. <http://www.fisica.unam.mx/misioneros>

Historial: 12 platicas cumplidos en diversas escuelas nacionales, 3 grupos de estudiantes de preparatoria formados para dar platicas en secundarias y primarias.

FORMACIÓN DE PERSONAL ACADÉMICO y RECURSOS HUMANOS

Experiencia Docente

1. Instructor de varios laboratorios de física general como asistente de profesor en el Universidad de Alberta, Canada, de Sept. 1981 a Dic. 1983.
2. Tutor de cursos de física a nivel licenciatura como asistente de investigador de posgrado en el Universidad de Alberta, Canada, de Noviembre 1985 a Enero 1987.

3. Profesor de curso sobre electrónica de pulsos de alta frecuencia (en el medio de física nuclear) para estudiantes, técnicos e investigadores, en el Instituto de física, UNAM, de Enero a Marzo 1992 (12 horas).
4. Profesor de “Física Clásica I”, Facultad de Ciencias, UNAM, Sept. 1994 - Jan. 1996 (3 semestres).
5. Profesor de “Introducción a la Física Nuclear”, Facultad de Ciencias, UNAM, Feb. 1996 - Feb. 1997 (2 semestres).
6. Instructor de Seminario de Tesis I-IV, Doctorado, opción Ciencias Nucleares, Posgrado en Ciencias, UAEM, Sep. 1997 a Marzo 2001, 2 horas a la semana, (4 semestres).
7. Instructor de Seminario de Tesis I-IV, Doctorado, opción Física No Lineal, Posgrado en Ciencias, UAEM, Sep. 1997 a Marzo 2001, 2 horas a la semana, (4 semestres).
8. Profesor de “Termodinámica Fuera de Equilibrio”, Posgrado en Ciencias Físicas, UNAM, (3 semestres – 2004 -I, 2004 -II, 2009-I).
9. Instructor de Seminario de Investigación I, Doctorado, Posgrado en Ciencias Físicas, UNAM, agosto 2007 a diciembre 2007, 4 horas a la semana, (1 semestre).
10. Instructor de Seminario de Investigación II, Doctorado, Posgrado en Ciencias Físicas, UNAM, enero 2007 a julio 2008, 4 horas a la semana, (1 semestre).
11. Profesor de “Termodinámica Irreversible: Aplicación a la Vida y la Evolución”, Posgrado en Ciencias Físicas, UNAM, (1 semestre – 2012-I).

Dirección de Tesis

Doctorado:

1. Simon Hilarión Cruz Galindo, Doctorado, Facultad de Ciencias, UAEM, *Modelo de Luminiscencia para Detectores de Radiación por Iones de Baja Energía*, terminado, 12/11/2004.
2. Aurelio Tamez Murguía, Doctorado, Facultad de Ciencias, UAEM, *Termodinámica de Nanocúmulos a partir de la Superficie de Energía Potencial*, terminado, 14/11/2008.

Maestría:

1. Jose Vega Munguía, Maestría, Posgrado en Ciencias Físicas, UNAM, *Isómeros Estables de las Bases del ADN*, terminado, /09/2002.
2. Vasthi Alonso Chavez, Maestría, Posgrado en Ciencias Físicas, UNAM, *Respuesta de Ecosistemas a Perturbaciones dentro del marco de la Termodinámica Irreversible*, terminado 08/06/07.
3. Julian Gonzalez Gonzalez, Maestría, Posgrado en Ciencias Físicas, UNAM, *Termodinámica de Sistemas Evolutivos*, terminado 02/12/2009.

Licenciatura:

1. Nelson Rendon Carmona, Licenciatura, Facultad de Ciencias, UNAM, *Nanocúmulos de Ni, Ag, y Au*, terminado, 09/12/1999.
2. Jose Vega Munguía, Licenciatura, Facultad de Ciencias, UNAM, *Isómeros de la Adenine*, terminado, 11/02/2000.
3. Noemí Hernández Candia, Licenciatura, Facultad de Ciencias, UNAM, *Determinación de la producción de entropía de una planta*, terminado 03/03/2009, Ganador “Diploma – Juan Manuel Lozano Mejía, 2010”.
4. Mariana Patricia Jacome Paz, Licenciatura, Facultad de Ciencias, UNAM, *Efecto de perturbación en la producción de entropía de una planta*, terminado 02/12/2009.
5. Daniel Pastrana Maldonado, Licenciatura, Facultad de Ciencias, UNAM, *Efecto de n-cuerpos en la dinámica de ecosistemas*, en proceso.
6. Jessica Gatica Martínez, Facultad de Ciencias, UNAM, *Determinación de la producción de entropía de cianobacterias*, en proceso.

Dirección de Servicio Social

1. Nelson Rendon Carmona, Facultad de Ciencias, UNAM, Terminado 1998.
2. Enrique Lozano, Facultad de Ciencias, UNAM, Terminado 1998.
3. Jose Vega Munguia, Facultad de Ciencias, UNAM, Terminado 1998.
4. Jessica Gatica Martínez, Facultad de Ciencias, UNAM, Terminado 2010.
5. Norberto Santillan Padilla, UNAM, Facultad de Ciencias, UNAM, en proceso.

Dirección de Iniciación Temprana a la Investigación, Fundación UNAM

1. Nelson Rendon Carmona, Facultad de Ciencias, UNAM, Terminado 1997.

Comisión Tutorial

1. Ghirardo Murillo Olayo, Doctorado, Instituto Nacional de Investigaciones Nucleares, convenio ININ-UAEM, Abril 1997.
2. Juan Manuel Lopez Robles, Maestria, Facultad de Ciencias, UNAM, Abril 1998.
3. Juan Antonio Mondragón Sánchez, Maestria, Facultad de Ciencias, UNAM, Abril 1998.
4. Jose Luis Flores Torres, Maestria, Facultad de Ciencias, UNAM, Abril 1998.
5. Ricardo Perez Arellano, Maestria, Facultad de Ciencias, UNAM, Abril 1998.
6. Rosalia Aguirre Hernandez, Licenciatura, Facultad de Ingenieria, UNAM, Abril 1998 – Abril 1999.
7. Jose Vega Munguia, Maestria, Facultad de Ciencias, UNAM, Abril 1999.
8. Ruben Alfaro-Molina, Doctorado, Posgrado en Ciencias Físicas, UNAM, Abril 1999.
9. Andres Reyes-Nava, Maestria, Posgrado en Ciencias Físicas, UNAM, Abril 1999.
10. Ruth Minerva Herrera Rodriguez, Maestria, Posgrado en Ciencias Físicas, UNAM, Abril 1999 - Marzo 2001.
11. Nelson Rendon Carmona, Maestria, ECOSUR, Junio 2001–.
12. Israel Gutiérrez González, Licenciatura, Facultad de Ciencias, UNAM, julio 2001–.
13. David C. Lizcano Cabrera, Doctorado, Facultad de Ciencias, UAEM, agosto 2001 –.
14. Maria Eugenia Romero Guzmán, Puebla, Maestria, Posgrado en Ciencias Físicas, UNAM, feb. 2002 -.
15. David de Jesús Albarrán Arreguín, Licenciatura, Facultad de ciencias, UNAM, marzo 2002 -.
16. C. Carlos Sandoval Alvarado, Facultad de Ciencias, UAEM, 20/01/04
Asesor: Miguel Mayorga, UAEM.
17. Christian Agustín Vázquez Villanueva, Licenciatura, Facultad de Ciencias, UNAM, 2004. Asesor:
18. Mario Perez Alvarez, Posgrado en Ciencia e Ingenieria de Materiales, Instituto de Investigaciones en Materiales, 2004. Asesor: Marcela Beltran.
19. Edgar Oswaldo Berlanga Ramírez, Instituto de Fisica, Universidad Autonoma de San Luis Potosí, nov. 2004. Asesor: Faustino Aguilera, UASLP.
20. Vasthi Alonso Chavez, Maestria, Posgrado en Ciencias Físicas, UNAM, Abril 2005 - . Asesor: Karo Michaelian
21. Julian Gonzalez Gonzalez, Maestria, Posgrado en Ciencias Físicas, UNAM, Mayo 2006 - . Asesor: Karo Michaelian

22. Hugo Marcelo Flores Ruiz, Maestria, Posgrado en Ciencias Físicas, UNAM, Enero 2007 - . Asesor: Gerrardo Naumis
23. Luis Eduardo Gonzalez Gonzalez, Posgrado en Ciencias Físicas, UNAM, Sept. 2007 - . Asesor: Ivan Santamaria Holek
24. Pamela Mollinedo Rosado, Posgrado en Ciencias Físicas, UNAM, Nov. 2007 - 2008. Asesor: Ruben Santamaría
25. Julian Gonzalez, Maestria, Posgrado en Ciencias Fisicas, UNAM, 2007-2009.
Asesor: Karo Michaelian
26. Noemí Hernández Candia, Licenciatura, Facultad de Ciencias, UNAM, 2008-2009.
Asesor: Karo Michaelian
27. Mariana Patricia Jacome Paz, Licenciatura, Facultad de Ciencias, UNAM, 2008-2009.
Asesor: Karo Michaelian
28. Daniel Pastrana Maldonado, Licenciatura, Facultad de Ciencias, UNAM, 2008-2009.
Asesor: Karo Michaelian
29. Aldo Ledesma Duran, Licenciatura, Facultad de Ciencias, UNAM, 30/05/2008. Asesor: Ivan Santamaría-Holek.
30. Frida Moran Fitch, Posgrado en Ciencias Fisicas, UNAM, 20/01/2009.
Asesor: Ignacio Garzon Sosa.
31. Atahualpa S. Kraemer, Posgrado en Ciencias Fisicas, UNAM, 24/06/2009. Asesor: David Saunders.
32. Felix Huziel Saucedo, Licenciatura, Facultad de Ciencias, UNAM, 25/05/2009. Asesor:
Ignacio Garzon Sosa.
33. Nazul Jared López Alamilla, Posgrado en Ciencias Físicas, UNAM, 19/08/2011. Asesor: Ivan Santamaria-Holek.
34. Norberto Santillan Padilla, Licenciatura, Facultad de Ciencias, UNAM, 20/11/2011. Asesor: Karo Michaelian.
Ignacio Garzon Sosa.
35. Antonio Alvarez, Posgrado en Ciencias Fisicas, UNAM, 12/01/2012. Asesor: Ruben Santamaría

Sinodal del Examen Profesional

1. Fernando Leopoldo Huidobro Cetina, Licenciatura, Facultad de Ciencias, UNAM, Examen 29 de marzo 1996.
Asesor: Dr. Arturo Menchaca Rocha.
2. Jose Heras, Maestria, Facultad de Ciencias, UNAM, Examen oct. 1996. Asesor: Dr. Octavio Novaro.
3. Jose Luis Flores Torres, Licenciatura, Facultad de Ciencias, Examen 4 de feb. 1998. Asesor: Dr. Ruben Santamaria Ortiz.
4. Rosalia Aguirre Hernandez, Licenciatura, Facultad de Ingenieria, UNAM, Examen 8 de abril 1999. Asesor:
Dr. Chris Stephens Stevens.
5. Jose Antonio Pérez Alonso, Licenciatura, Facultad de Ciencias, UNAM, Examen 21 de mayo, 1999. Asesor:
Dr. Ilya Kaplan.
6. Hilarion Simon Cruz Galindo, Examen predoctoral, Facultad de Ciencias, UAEM, 18 de enero, 1999. Asesor:
Dr. Karo Michaelian.
7. Nelson Rendon Carmona, Licenciatura, Facultad de Ciencias, UNAM, 9 de diciembre, 1999. Asesor: Dr.
Karo Michaelian.

8. Jose Vega Munguia, Licenciatura, Facultad de Ciencias UNAM, 11 de febrero 2000. Asesor: Dr. Karo Michaelian.
9. Aurelio Tamez Murguia, Examen predoctoral, Facultad de Ciencias, UAEM, 18 de octubre, 2000. Asesor: Dr. Karo Michaelian.
10. Ruth Minerva Herrera Rodriguez, Maestria, Posgrado en Ciencias Físicas, UNAM, marzo, 2001. Asesor: Dr. Arnulfo Martínez.
11. Alexandra Deriabina, Conferencia, examen de Maestria, Facultad de Ciencias Físico Matemáticas, Benemerita Universidad Autonoma de Puebla, octubre, 2001. Asesor: Dr. Valery I. Poltev.
12. María Eugenia Romero Guzmán, Maestria en Ciencias (Físicas), Posgrado en Ciencias Físicas, Universidad Nacional Autonoma de México, marzo 2004. Asesor: Dr. Valery I. Poltev.
13. Jose Vega Munguia, Maestria, Posgrado en Ciencias Fisicas, UNAM, sept. 2002. Asesor: Dr. Karo Michaelian.
14. David Lizcano Cabrera, Doctorado, Facultad de Ciencias, UAEM, 16/01/03. Asesor: Dr. Elí F. Aguilera Reyes.
15. Christian Agustín Vázquez Villanueva, Licenciatura, Facultad de Ciencias, UNAM, dic. 2004. Asesor: Dr. Jorge Montemayor
16. Hilarion Simon Cruz Galindo, Doctorado, Facultad de Ciencias, UAEM, 12/11/04. Asesor: Dr. Karo Michaelian.
17. Ricardo Diaz Castro, Licenciatura, Facultad de Ciencias, UNAM, 06/05. Asesor: Dra. Marcela Beltrán (IIM).
18. Vasthi Alonso Chavez, Maestria, Posgrado en Ciencias Físicas, UNAM, 08/06/07. Asesor: Karo Michaelian Pauw.
19. Pamela Mollinedo Rosado, Doctorado, Posgrado en Ciencias Físicas, UNAM, 11/02/2008. Asesor: Ruben Santamaría.
20. Abelardo Ramirez Hernandez, Doctorado, UAEM (Morelos), 14/03/2008. Asesor: Francois Leyvraz.
21. Aldo Ledesma Duran, Licenciatura, Facultad de Ciencias, UNAM, 30/05/2008. Asesor: Ivan Santamaría-Holek.
22. Aurelio Tamez Murguia, Doctorado, Facultad de Ciencias, UAEM, 14/11/2008. Asesor: Karo Michaelian Pauw.
23. Hugo Marcelo Flores Ruiz, Examen General de Conocimientos, Posgrado en Ciencias Fisicas, UNAM, 14/05/09, 2009. Asesor: Gerrardo Garcia Naumis.
24. Alejandro Valderrama Zaldivar, Maestria, Posgrado en Ciencias Fisicas, UNAM, 29/06/09. Asesor: Luis Fernando Magaña Solís.
25. Noemi Camen Hernández, Licenciatura, Facultad de Ciencias, UANM 03/03/2009. Asesor: Dr. Karo Michaelian Pauw.
26. Mariana Patricia Jacome Paz, Licenciatura, Facultad de Ciencias, UNAM, 02/12/2009. Asesor: Dr. Karo Michaelian Pauw.
27. Julian Gonzalez Gonzalez, Maestria, Posgrado en Ciencias Fisicas, UNAM, 02/12/2009. Asesor: Karo Michaelian Pauw.
28. Carolina Rendón Barraza , Doctor en Ciencias, Licenciatura, Facultad de Ciencias, UNAM, 12/08/2010. Asesor: Dr. Jaime Vega Castro.
29. Jared Nazul López Alamilla, Licenciatura, Facultad de Ciencias, UNAM, 08/08/2011. Asesor: Dr. Iván Santamaría Holek.

30. Felix Huziel Saucedo, Maestria, Posgrado en Ciencias Fisicas, UNAM, 07/10/2011. Asesor: Dr. Ignacio Garzon Sosa.

EDITOR de REVISTA

1. *Journal of Modern Physics*, Scientific Research Publishing, desde enero, 2010.

ARBITRO de REVISTA

1. *Revista Mexicana de Física*, Sociedad Mexicana de Física, desde marzo, 1994.
2. *Ciencia Ergosum*, Universidad Autónoma del Estado de México, desde junio 1998.
3. *Physical Review B*, American Physical Society, desde junio 2001.
4. *Physical Review Letters*, American Physical Society, (Estado Solido – desde febrero 2003, Biofisica – desde mayo 2005).
5. *Physics Letters A*, Elsevier, desde septiembre 2003.
6. *Journal of Physics: Condensed Matter*, Institute of Physics (IOP), desde octubre 2003.
7. *Journal of Chemical Physics*, American Institute of Physics, desde septiembre 2004.
8. *New Journal of Physics*, Institute of Physics (IOP), desde octubre 2004.
9. *Nanotechnology*, Institute of Physics (IOP), desde noviembre 2006.
10. *Ecological Modeling*, Elsevier, desde septiembre 2007.
11. *Europhysics Letters*, European Physical Society, desde octubre 2007.
12. *Journal of Biological Physics*, Springer, desde diciembre 2008.
13. *Ecological Complexity*, desde mayo, 2009.
14. *Applied Mathematics*, Scientific Research Publishing, desde abril, 2010.

JURADOS ACADEMICOS

1. Jurado del examen de oposicion por plaza de Investigador Titular A del IFUNAM entre el Dr. Luis Antonio Pérez López y la Dra. María Guadalupe Valverde Aguilar, 2008.
2. Jurado del ortagacion del premio “Jorge Lomnitz Adler”, 19 de noviembre, 2010.
3. Jurado del ortagacion del premio “Medalla Juan Manuel Lozano Mejía”, noviembre 2011.

ARBITRO de PROYECTOS

1. CONACyT, desde 1999.
2. DGAPA, desde 2002.

PUESTOS ADMINISTRATIVOS

1. Organizador principal del congreso internacional “XVIII Nuclear Physics Symposium at Oaxtepec”, Oaxtepec, Morelos, enero 4-7, 1995.
2. Coresponsable del comité para la asignación del tiempo de uso de Peletron, mayo 1996 - junio 1999.
3. Responsable y corresponsable de varios proyectos de Conacyt y DGAPA desde 1993.
4. Miembro de la Comision Bibliotecario, Instituto de Física, UNAM, 2008-.
5. Miembro del “International Advisory Board”, del Mexican Institute of Complex Systems A.C., Ciudad Madero, Tamaulipas, 2009-.

6. Coordinador de las Universidades del Programa “Misioneros de la Ciencia”, 2009-.
7. Miembro de la Comision Computacional, Instituto de Física, UNAM, 2011-.

MIEMBRO de SOCIEDADES PROFESIONALES

1. Canadian Asociacion of Physicists
2. American Physical Society
3. Sociedad Mexicana de Fisica
4. Academia Mexicana de Ciencia de Materiales

PROYECTOS

1. Colaborador del Proyecto: “Polarized Proton-Proton Bremsstrahlung”, Financiado por Natural Sciences and Engineering Research Council of Canada NSERC, 1982. Monto; 300,000. \$US.
2. Colaborador del Proyecto: “A 4π Detector for Pion Absorption Studies”, Financiado por SHULRAT, Suiza, 1988. Monto; 400,000. \$US.
3. Colaborador del Proyecto: “Efectos Fisicos y Biologicos de la Radiación”, Financiado por CONACYT, 1991.
4. Corresponsable del Proyecto: “Detectores de Radiación para Física Nuclear Basica y Aplicaciones”, Financiado por DGAPA, 1993.
5. Responsable del Proyecto: CONACYT-NSF, 1995, “Systematic Measurement of Pulse Height Response of Nuclear Particle Detectors to Heavy-Ions”, 1995. Monto: N\$ 16,622.-
6. Responsable del Proyecto: UNAM-CRAY SC-003095, “Determining Properties of the Nuclear Ground State with Genetic Evolution through Fitness Based Selection”, Financiado por CRAY Research Inc., 1995. Monto: N\$ 27,090.-
7. Colaborador del Proyecto: “Detectores de Radiación Ionizante para Física Nuclear”, Financiado por DGAPA, UNAM, oct. 1996. Monto: N\$152,600.-
8. Coresponsable y Responsable del Proyecto: “Estudio de Las Propiedades Estructurales Dinamicas y Electrónicas de Nanocumulos Metalicos Aislados y Ensamblados con Moleculas Organo-Biológicas”, Financiado por DGAPA UNAM # IN101297, 1997-2000. Monto: N\$ 600,000.-
9. Colaborador del Proyecto: “El Potencial Nuclear Entre Iones Pesados”, Financiado por CONACYT. Monto: N\$ 188,850.-
10. Responsable y Colaborador del Proyecto: “Estudio Teorico de Materiales Nanoestructurados (Cumulos Metalicos Ensamblados con Moleculas Organicas tipo ADN”, Financiado por CONACYT, #25083-E, 1998-2000. Monto: N\$ 400,000.-
11. Colaborador del Proyecto: “Simulacion Computacional de Biomoleculas, Nanocumulos y Nuevos Materiales”, DGAPA-UNAM, junio 2001. Monto: N\$ 600,000.-
12. Colaborador del Proyecto: “Simulacion Computacional de Biomoleculas, Nanocumulos y Nuevos Materiales”, DGAPA-UNAM IN-104402, junio 2003. Monto: N\$ 600,000.-
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