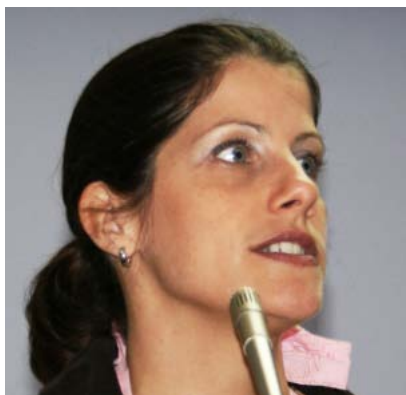


Ana Rita Mayol

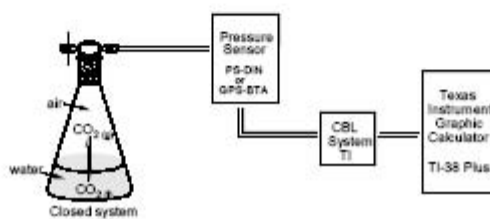
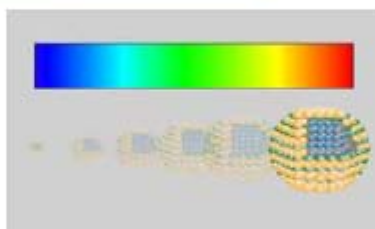
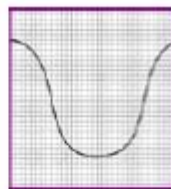
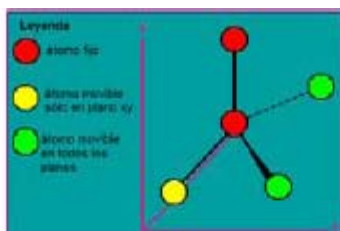
Nanoscience Educator

University of Puerto Rico, Río Piedras Campus



Biography

Born in Ponce, Puerto Rico, Mayol obtained a doctoral degree in Organometallic Chemistry from [Cornell University](#) in 2000. Mayol completed a postdoctoral appointment in Flavor Chemistry at Cornell University, under the supervision of Dr. Terry Acree, and a Research and Development appointment at [Consorzio di Ricerca Lattiero Caseario](#) (CorFiLaC) in Sicily, Italy. Mayol has been an active researcher in Chemical Education since August 2001 in the [Department of Chemistry](#) of the [University of Puerto Rico, Río Piedras Campus](#). Her work focus is in creating educational materials designed to promote effective and deep learning and the development of advanced cognitive levels in students. In her research, she uses assessment as a focal point to determine the effectiveness of the materials created and their implementation. Mayol works in the areas of Organic and Physical Chemistry. Mayol also designs web-based modules with a constructivist approach to aid students visualize difficult concepts such as Molecular Geometry. This work is financed by the [Department of Education](#). Her role in IFN is to create, implement and test laboratory experiences and modules that use the advances in nano science and technology to teach fundamental concepts. Currently this work is being geared towards advanced courses such as Physical Chemistry and Modern Physics, but it will be implemented at all levels (K-12, undergraduate and graduate levels). Mayol coordinates successful undergraduate tutoring program and a graduate mentoring program (NSF-AGEP-PR).



Teams

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Education

- Postdoctoral Research Fellow in Flavor Chemistry, Consorzio di Ricerca Filiero Caseario (CoRFiLac) (2000)
- Postdoctoral Research Fellow in Flavor Chemistry, [Cornell University](#) (1999)
- Ph.D. in Organometallic Chemistry, [Cornell University](#) (1999)
- M.Sc. in Inorganic Chemistry, [Cornell University](#) (1995)
- B.Sc. in Chemistry, [University of Puerto Rico-Rio Piedras Campus](#) (1993)

Appointments

2008– Education an Outreach Director, NASA Center for Advanced Nanoscale
present Materials, San Juan, PR, United States

2008– CoPI, MSEIP GRant, San Juan, PR, United States
present

2007– Assistant Dean of Student Affairs, College of Natural Sciences, UPR-Rio
present Piedras, San Juan, Puerto Rico, United States

2007– Education and Outreach Coordinator, Institute of Functional Nanomaterials
present (IFN), San Juan, Puerto Rico, United States

2007– Task Force Member, Institute for Functional Nanomaterials (IFN), San Juan,
present Puerto Rico, United States

2002– Academic Coordinator, Department of Chemistry, UPR-Rio Piedras, San Juan,
2005 Puerto Rico, United States

2002– Mentoring Coordinator, NSF-AGEP Puerto Rico, San Juan, Puerto Rico,
present United States

2002– Coordinator, Organic Chemistry Tutoring Program, Department of Chemistry,
2007 UPR-Rio Piedras, San Juan, Puerto Rico, United States

2001– Assistant Professor , Department of Chemistry, UPR-Rio Piedras, San Juan,
present Puerto Rico, United States

Grants

1. L. F. Fonseca, M. A. Hines, R. D. Kirby, A. R. Mayol, G. Morell, L. G. Rosa, N. Sepúlveda, E. Y. Tsymbal, and J. Velev. University of Puerto Rico System PREM in Materials Research to Achieve Competitiveness and Promote Diversity in World-Class NSE, National Science Foundation, Partnerships for Research and Education in Materials , 5 years, September 2009, Multiple PIs, Pending, \$3,500,000.
2. K. Belashchenko, B. Bockelman, Z. Chen, F. Choobineh, M. Gómez, Y. Ishikawa, H. Li, J. Lu, A. R. Mayol, H. Ortiz-Zuazaga, K. Riley, W. Srisa-an, D. Swanson, E. Tsymbal, J. Velev, X. Zeng, N. A. Zimbovskaya, and S. Zuloski-Benson. Collaborative Research: Adaptive Cyberinfrastructure for Computational Nanoscience, National Science Foundation, OIA - RESEARCH INFRASTRUCTURE IMPROV, 3 years, August 2009, Multiple PIs, Pending, \$2,627,400.
3. M. Gómez, A. R. Mayol, E. Melendez-Ackerman, G. Morell, and L. Velazquez. From Hectares to Nanometers: GK-12 Multidisciplinary Explorations of Tropical Ecosystems and Functional Nanoscience, National Science Foundation, EHR, 5 years, May 2009, Multiple PIs, Approved, \$2,600,000.
4. F. M. Aliev, C. R. Cabrera, L. F. Fonseca, K. H. Griebenow, A. J. Hernández, Y. Ishikawa, R. S. Katiyar, M. M. Martínez, A. R. Mayol, G. Morell, W. Otaño, R. G. Raptis, and B. R. Weiner. Center for Advanced Nanoscale Materials (CANM) NASA University Research, National Aeronautics and Space Administration, URC, 5 years, October 2008, Multiple PIs, Approved, \$6,000,000.

5. O. Auciello, S. Bader, D. Bonnell, S. Desu, L. F. Fonseca, M. Gómez, S. Hong, Y. Ishikawa, R. S. Katiyar, V. Makarov, A. R. Mayol, G. Morell, W. Otaño, R. Palai, O. J. Perales, A. Petford-Long, R. Ramesh, A. Rastogi, R. Thomas, and M. S. Tomar. Development and Understanding of Multifunctional Nanostructures for Spintronics and Magnetoelectrics Applications, United States Department of Energy, EPSCoR, 3 years, September 2008, Multiple PIs, Approved, \$2,245,000.