

**Giulianna A. Murati**  
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## **EDUCATION**

August 2006 to the present, junior at School of Science and Technology,  
Universidad Metropolitana, *San Juan, P.R.*

- Courses Completed: General Biology I & II, General Chemistry I & II, Organic Chemistry I & II, Physics I, Botany, Ecology, Genetics, Microbiology, and Zoology with laboratory experience in each of these courses, Pre-calculus I & II, Calculus, Computer science, research techniques, Spanish, English, History, Humanities I & II, Social sciences I & II, Introductory math for science .
- Credits earned: 101
- GPA 3.10 on a 4.0 scale

## **AWARDS**

- 2006 to the present, Model Institutions for Excellence scholarship at Universidad Metropolitana.
- Academic Excellence award spring 2006

## **RESEARCH EXPERIENCES**

- 2009 Applied Physics, Mentor Victor Rodriguez; Universidad Metropolitana
- 2008, “Plant biology pollination system in *Bryophyllum*” Research Mentor, Eva Davila, Universidad Metropolitana.
- 2007, “Terrestrial Gastropods Species richness in a sub-tropical moist forest,” Research Mentor, Eva Davila; Universidad Metropolitana.

## **CONFERENCES ATTENDED**

- March 7, 2008, “Mathematics and Mathematical Education in a Modern Society,” Speaker: Dr. Vladimir Golubyatnikov, Fulbright Visiting Scholar from Russia.
- February 22, 2008, “Steps to Become a Competitive Scientist,” Speaker: Dr. Juan F. Arratia, Universidad Metropolitana, San Juan, Puerto Rico.
- February 15, 2008 “Heme Oxidation State Control in the Hemoglobins from *Lucina Pectinata*: Implications for Ligand Selection and Reactivity,” Speaker: Dr. Juan López Garriga, University of Puerto Rico, Mayagüez, Puerto Rico.
- February 1, 2008, “On the Vision Projective Three-Fold,” Speaker: Dr. Ovidio Pasaresco, Fulbright Visiting Scholar from Romania.
- December 2007, “Introduction to the Earth Sciences: Research, Impact, and Student Opportunities,” Guest Speaker: Dr. Eric Riggs, Purdue University- Center for Research and Engagement in Sc. & Math
- November 2007, “Shadows of a Golden Pastigenetic Loss of Golden Lontamarins During the Past 200 Years,” Guest Speaker: Adriana Daudt Grativol, Fulbright Visiting Scholar from Brazil

- November 2007, “Geotechnical Engineering and Problematic Soils,” Guest Speaker: Claudia Zapata, Department of Civil and Environmental Engineering, Arizona State University
- October 2007, “Flexible Electronics Research at Arizona State University,” Guest Speaker: Terry L. Alford, Arizona State University- Department of Chemistry and Material Engineering
- September 2007, “Air Pollution: Fundamental and Applied Research,” Guest Speaker: Jean Andino, Arizona State University- Department of Chemical Engineering
- September 2007, “The Radio Sky,” Guest Speaker: Chris Salter, Cornell University- Arecibo Observatory.
- August 2007, “Land Use Indicators for Agro-Biodiversity in Ukraine,” Guest Speaker: Oleg Kucher.
- April 27<sup>th</sup>, 2007, “The Effect of Ghrelin on TRP Ion Channels in the Brain” Speaker: Dr. Abba Alabsoul-Younes, Fulbright Visiting Scholar from Jordan University of Science and Technology, Irbid, Jordan
- April 27<sup>th</sup>, 2007, “Islet Cell Transplantation and Treatment of Diabetes” Speaker: Dr. Nidal A. Younes, Fulbright Visiting Scholar from Jordan University, Amman, Jordan.
- April 13<sup>th</sup>, 2007, “The Philippines as a Biodiversity Hotspot, Research and Conservation Development,” Speaker: Dr. Benjamin Vallejos, Fulbright Visiting Scholar from Quezon City, Philippines
- March 30<sup>th</sup>, 2007, “Why it is Fun to be a Parasite” Speaker: Dr. Ivona Mladinco, Fulbright Visiting Scholar from Institute of Oceanography and Fisheries, Split, Croatia
- March 16<sup>th</sup>, 2007, “Cytochrome P450s in Plant Cells,” Speaker: Dr. Ronald Coolbaugh, Director MARC/AIM Summer Research Program Purdue University, West Lafayette, Indiana
- March 2<sup>th</sup>, 2007, “Future Trends and Challenges in the Microprocessor World” Speaker: Dr. Ramon Canal Universidad Politecnica de Catalunya, Barcelona, Spain
- February 16<sup>th</sup>, 2007, “South Africa Biodiversity: Overview, Management, Research and Socio-Economic Challenges,” Speaker: Dr. Neil Heideman, Fulbright Visiting Scholar from University of the Free State Bloemfontein, South Africa
- February 16<sup>th</sup>, 2007, “A Practice-Based Approach to Human-Centered Computing” Speaker: Dr. Volker Wulf, Fulbright Visiting Scholar from the University of Siegen, Fraunhofer, Germany
- February 9<sup>th</sup>, 2007, “Active Systems in Electromagnetic Fields: From Flexible Magnetic Filaments to Magnetotactic Bacteria” Speaker: Dr. Andreis Cebers, Fulbright Visiting Scholar from University of Latvia, Latvia.
- January 30<sup>th</sup>, 2007, “The Melanocyte Cell of *Xenopus Laevis*: A Model for Neuroendocrine Integration,” Speaker: Dr. Adhanet H. Kidane, Fulbright Visiting Scholar from Radboud University of Nijmegen, The Netherlands
- January 26<sup>th</sup>, 2007, “Climate Change and Aerosols,” Speaker: Dr. Vernon Morris, Howard University, Washington DC.
- October 6<sup>th</sup>, 2006, “Small-Molecule Catalyzed Oxidative Protein Folding: The Quest for an *In vivo* Chemotherapeutic,” Speaker: Paul Nieves, MIE Scholar, Universidad Metropolitana

Research Conducted at: University of Texas, El Paso

- October 6<sup>th</sup>, 2006, “Intrinsic Ca<sup>2+</sup> Variations in Hippocampal Astrocytes,” Speaker: Triana Merced, Universidad Metropolitana
- October 6<sup>th</sup>, 2006, “Intramolecular Proton Transfer in 7-Methyl-Guanine: An AB *Initio* Study,” Speaker: Amir Rodriguez, Universidad Metropolitana, Research Conducted at: Jackson State University, Mississippi

#### **WORKSHOPS ATTENDED**

- September 2007, “Energy and Climate Change Workshops,” XVIII Undergraduate Research Symposium, Universidad Metropolitana at the Normandie Hotel in San Juan, Puerto Rico.
- September 15-16, 2006, “Nanotechnology Workhops,” XVII Undergraduate Research Symposium, Universidad Metropolitana at the Normandie Hotel in San Juan, Puerto Rico.

#### **SKILLS**

- Computer skills – Microsoft Office and internet research
- Oral and written skills in Spanish and English
- Laboratory techniques- animal dissections

#### **ACTIVITIES/LEADERSHIP**

- Playing soccer (captain), volleyball, and piano
- Public speaking
- Community service- helping in open houses
- English tutor

#### **REFERENCES**

- Dr. Eva Davila, Professor and mentor –  
Department of Science and Technology  
Tel. (787) 766-1717 ext. 6464