

Biology Department  
University of Detroit Mercy  
4001 W. McNichols  
Detroit, MI 48221

Email: carmonvi@udmercy.edu  
Tel.: 313.993.1182  
FB: Victor Carmona Lab  
Web: carmona-lab.blogspot.com

## EDUCATION

<b>Fulbright Scholar</b>	<b>Centro de Investigación y Desarrollo en Salud [CENSALUD], Universidad de El Salvador</b> San Salvador, El Salvador; <i>Host</i> : Dr. V. de Abrego	2016 - 2018
<b>Fulbright Scholar</b>	<b>Escuela de Biología, Universidad de El Salvador</b> San Salvador, El Salvador; <i>Host</i> : MSc. N. Ventura	2012 - 2013
<b>Postdoctoral Fellow</b>	<b>Biology Department, Occidental College</b> Eagle Rock, California; <i>Advisor</i> : Dr. H.E. Braker	2005 - 2007
<b>Ph.D.</b>	<b>Ecology and Evolutionary Biology, University of Arkansas - Fayetteville</b> Fayetteville, Arkansas; <i>Advisor</i> : Dr. C. Sagers <i>Language requirement</i> : Portuguese (Brazilian)	2005
<b>B.S.</b>	<b>Chemistry, Rensselaer Polytechnic Institute</b> Troy, New York <i>Minors</i> : Biochemistry and Philosophy	1995
<b>High School</b>	<b>American School of Madrid</b> Pozuelo de Alarcón, Madrid, Spain	1991
<b>Language Skills</b>	Bilingual and bicultural in <b>English</b> and <b>Spanish</b> ; Conversational <b>French</b> and <b>Portuguese</b>	
<b>Faculty Development</b>	<b>Online/ Hybrid Course Development</b> Office for Technology Enhanced Learning, Loyola Marymount University; <i>Coordinator</i> : Dr. M. Ramirez	2016
	<b>Keck Interdisciplinary Course Development</b> Seaver College of Science and Engineering, Loyola Marymount University; <i>Coordinator</i> : Dr. C. Bennett	2013
	<b>Plugging into Pedagogy</b> Information Technology Services, Loyola Marymount University; <i>Coordinator</i> : Dr. D. Scozzaro	2011
	<b>Interdisciplinary Studies in the Chemical Biology of the Tropics</b> Pan-American Advanced Studies Institute, Tambopata National Reserve, Peru; <i>Coordinator</i> : Dr. J. Vivanco	2008
	<b>Bats and Echolocation</b> Organization for Tropical Studies, Costa Rica; <i>Coordinators</i> : Dr. D. McClearn and Dr. R. Timm	2007
	<b>The Ant Course</b> California Academy of Science and James Cook University School of Tropical Biology, Cairns, Queensland, Australia; <i>Coordinator</i> : Dr. B. Fisher	2006
	<b>Stable Isotope Ecology</b> University of Utah, Salt Lake City, Utah; <i>Coordinator</i> : Dr. J. Ehleringer	2006
	<b>Ecología Tropical y Conservación</b> Organization for Tropical Studies, Costa Rica; <i>Coordinators</i> : Dr. A. Farji and Dr. G. Barrantes	2001
	<b>Tropical Plant Systematics</b> Organization for Tropical Studies, Costa Rica; <i>Coordinators</i> : Dr. B. Boyle and Dr. R. Moran	2000
	<b>Sustainable Development and Tropical Ecology</b> School for Field Studies, Costa Rica; <i>Coordinator</i> : Dr. G. Avalos	1998

**Academic Technology**      **Operating Systems:** Windows, Mac, Linux, Android, DOS.  
**Software:** 1-Wire [Maxim], BatSound [Pettersson], BoxCar [Onset], Empower [Waters],  
 EndNote, EstimateS, GPS Pathfinder Office [Trimble], GRASS, ImageJ, Office Suites [MS/  
 Corel/ Open/ Libre], PC Ord, Primer, Sigma Plot, Sigma Scan Pro, STATISTICA, VISIONLite  
 [Thermo].  
**Learning Management Systems:** Brightspace/ D2L, Connect/Blackboard, Moodle, WebCT.  
**Other:** MS & Linux Networks, FTP, HTML, Pascal, Fortran, Basic.

## ACADEMIC POSITIONS

<b>Associate Professor</b>	2017 - Present
Biology Department, University of Detroit Mercy, Detroit, Michigan	
<b>Research Associate</b>	2016 - Present
Centro de Investigaciones y Desarrollo en Salud [CENSALUD], Universidad de El Salvador, San Salvador, El Salvador	
<b>Associate Professor</b>	2014 - 2017
Biology Department, Loyola Marymount University, Los Angeles, California	
<b>Visiting Professor</b>	2012
Escuela de Biología, Universidad de El Salvador, San Salvador, El Salvador	
<b>Assistant Professor</b>	2008 - 2014
Biology Department, Loyola Marymount University, Los Angeles, California	
<b>Adjunct Professor</b>	2007 - 2008
Biology Department, Occidental College, Los Angeles, California	

## PROFESSIONAL EXPERIENCE

<b>Administrator</b>	2017 - Present
Director of Sustainability, College of Engineering and Science University of Detroit Mercy	
<b>Consultant</b>	
Peña del Gato field station, Management Unit for Wildlife Conservation (Mexico)	2016
La Selva Biological Station, Research Laboratories	2007
Duke University and the Organization for Tropical Studies (Costa Rica)	
La Selva Biological Station, Meteorological Station	2006
Duke University and the Organization for Tropical Studies (Costa Rica)	
Semester Abroad Undergraduate Course, South Africa: Ecology and Conservation Program	2004 - 2005
Duke University and the Organization for Tropical Studies (Costa Rica)	
Semester Abroad Graduate Course, Tropical Biology: An Ecological Approach	2000
Duke University and the Organization for Tropical Studies (Costa Rica)	
<b>Research Assistant</b>	
Characterization of the Ant-Plant Interactions Using Stable Isotopes	2001
University of Arkansas	
A Phylogenetic Analysis of the Evolution of Plant Defense	1999
University of Arkansas	
Native Tree Agroforestry Trials	1998
Tropical Science Center, Costa Rica	
Synthesis of Transition Metal Ligands	1991 - 1993
Department of Chemistry, Rensselaer Polytechnic Institute	
<b>Research Technician</b>	
Division of Inorganic Analysis, Perkin-Elmer Corporation	1997 - 1998
Schick Shaving Products Group, Warner Lambert Company	1994
<b>Laboratory Manager</b>	
La Selva Biological Station, Organization for Tropical Studies, Costa Rica	1995 - 1997

## TEACHING EXPERIENCE

### Undergraduate-Level

<b>Associate Professor:</b> Department of Biology, University of Detroit Mercy	2017 - Present
• <i>General Biology Lab I &amp; II</i> ; lower-division lab; 36 students; 1 TA	

<ul style="list-style-type: none"> <li>• <i>Tropical Ecology</i>; travel embedded upper-division course with lab; 12 students; 1 TA</li> </ul>	
<b>Associate Professor:</b> Department of Biology, Loyola Marymount University	2014 - 2017
<ul style="list-style-type: none"> <li>• <i>Tropical Ecology</i>; travel embedded upper-division course with lab; 12 students; 1 TA</li> <li>• <i>Principles of Ecology</i>; upper-division course with lab; 24 students; 1 TA</li> <li>• <i>Chemical Ecology</i>; upper-division course with lab; 12 students; 1 TA</li> <li>• <i>General Biology II</i>; lower-division lecture; 40-50 students</li> <li>• <i>Biology Research</i>; upper-division course with lab; 15-20 students</li> </ul>	
<b>Visiting Professor:</b> Escuela de Biología, Universidad de El Salvador	2012
<ul style="list-style-type: none"> <li>• <i>Talleres sobre la biología de campo</i> [Field Biology Workshops]; workshop series with independent project; 10 students</li> </ul>	
<b>Assistant Professor:</b> Department of Biology, Loyola Marymount University	2008 - 2014
<ul style="list-style-type: none"> <li>• <i>Tropical Ecology</i>; travel embedded upper-division course with lab; 12 students; 1 TA</li> <li>• <i>Principles of Ecology</i>; upper-division course with lab; 24 students; 1 TA</li> <li>• <i>Chemical Ecology</i>; upper-division course with lab; 12 students; 1 TA</li> <li>• <i>General Biology II</i>; lower-division lecture; 40-90 students</li> <li>• <i>General Biology II Laboratory</i>; lower-division lab; 180 students; 15 TAs</li> <li>• <i>Biology Research</i>; upper-division course with lab; 5-10 students</li> </ul>	
<b>Adjunct Professor:</b> Department of Biology, Occidental College	2007 - 2008
<ul style="list-style-type: none"> <li>• <i>Ecology</i>; lower-division course with lab; 30 students</li> <li>• <i>Latitudinal Biodiversity Gradients</i>; upper-division lecture; 15 students</li> </ul>	
<b>Postdoctoral Fellow:</b> Department of Biology, Occidental College	2005 - 2007
<ul style="list-style-type: none"> <li>• <i>Tropical Ecology Mentorship Program</i>; summer course with lab; 8 students</li> <li>• <i>Tropical Biology Research Experience for Undergraduates</i>; summer course; 1 student</li> <li>• <i>Field Biology</i>; upper-division course with lab; 16 students; 1 TA</li> <li>• California Environment Semester; lower-division course with lab; 20 students</li> <li>• <i>Ecology</i>; lower-division course with lab; 30 students</li> </ul>	
<b>Teaching Assistant:</b> University of Arkansas at Fayetteville	1999 – 2000
<ul style="list-style-type: none"> <li>• <i>Principles of Biology Lab</i>; lower-division lab; 18 students</li> <li>• <i>General Ecology Lab</i>; upper-division lab; 40 students</li> </ul>	
<b>Graduate-Level</b>	
<b>Visiting Professor:</b> Escuela de Biología, Universidad de El Salvador	2012
<ul style="list-style-type: none"> <li>• <i>Principios de la Investigación de Campo</i> [Principles of Field Research]; faculty workshops; 10 participants</li> </ul>	
<b>Adjunct Professor:</b> Department of Biology, Occidental College	2007 – 2008
<ul style="list-style-type: none"> <li>• <i>Species Concepts and Phylogenetic Theory</i>; graduate seminar; 5 students</li> </ul>	
<b>Visiting Faculty:</b> Organization for Tropical Studies, Costa Rica	2004
<ul style="list-style-type: none"> <li>• <i>Tropical Biology: An Ecological Approach</i>; international field course; 22 students</li> </ul>	
<b>Faculty Co-Coordinator:</b> Organization for Tropical Studies, Costa Rica	2003 – 2004
<ul style="list-style-type: none"> <li>• <i>Tropical Biology: An Ecological Approach</i>; international field course; 22 students</li> </ul>	
<b>Teaching Assistant:</b> Organization for Tropical Studies, Costa Rica	1997 – 2001
<ul style="list-style-type: none"> <li>• <i>Tropical Biology: An Ecological Approach</i>; international field course; 22 students</li> </ul>	

#### SCHOLARSHIP (\*high school, \*undergrad, & \*\*grad collaborations)

##### **Publications**

##### **2017**

- Martin\*, S., B. Saulsbury\*, J. SanLuis\*, and V. Carmona-Galindo (2017). Argentine Ant (*Linepithema humile* Mayr) sugar-bait preferences in a coastal sage scrub community invaded by Castor bean (*Ricinus communis* L.). *BIOS (in revision)*
- Vides-Hernández\*, G.L., M.A. Velado-Cano\*, J.D. Pablo-Cea\*, y V. Carmona-Galindo (2017). Richness and diversity patterns of birds in urban green areas in the center of San Salvador, El Salvador. *HUITZIL, Revista Mexicana de Ornitología* 18(2): 272-280.

##### **2016**

- Courtois\*, M., K. Cerda\*, and V. Carmona-Galindo (2016). Intraspecific and Interspecific Aggressive Behaviors in the American Coot (*Fulica americana*) at Ballona Wetlands in Los Angeles, California. *BIOS* 87(1): 21-24.

Rodriguez\*, D., G. Casagrande\*, and **V. Carmona-Galindo** (2016). Effects of Black Mustard allelopathy on the fitness and life history of Buffalo Gourd in Southern California. *BIOS* 87(3):98-103.

## 2014

- Carmona-Galindo, V.**, K. Morales\*, R. Maser\*, J. Doyle\*, and M. Gobrial\* (2014). Characterization of sugar diversity in floral and extra-floral nectar from the coastal coral tree (*Erythrina caffra* Thunb.) in southern California. *Open Journal of Ecology* 4(2): 23-27.
- Cronrod\*, M., K. Gold\*, and **V. Carmona-Galindo** (2014). Differential resource allocation of black mustard plants (*Brassica nigra* L.) with proximity to black walnut trees (*Juglans californica* L.) in a Southern California riparian ecosystem. *Journal of Ecology and The Natural Environment* 6(2): 87-89.
- Hirai\*, T.L., **V. Carmona-Galindo**, S. Samuelson\*, C. Hale\*, and H.E. Braker (2014). Sub-canopy temperature dynamics of a native-tree plantation from a lowland tropical rainforest in Costa Rica. *Open Journal of Forestry* 4(3): 191-196
- Vilgalys\*, T., R. Sears\*, E. Hand\*, S. Morledge-Hampton\*, and **V. Carmona-Galindo** (2014). Exploration of microclimate influences on the abundance of galls on *Salix daphnoides* Vill. across two riparian communities in Southern California. *Journal of Ecology and the Natural Environment* 6(5): 164-169.
- Waters\*, T., D. Chirikian\*, and **V. Carmona-Galindo** (2014). Insect visitation of peduncular and petiolar extrafloral nectar glands on castor bean (*Ricinus communis* L.) plants in Southern California. *Journal of Evolutionary Biology Research* 6(2): 5-8.

## 2013

- Aquino\*, J., M. Catala\*, and **V. Carmona-Galindo** (2013). Anthropogenic impacts of irrigation on the arthropod community structure of a coastal sage scrub habitat in Los Angeles. *BIOS* 84(2): 101-105.
- Carmona-Galindo, V.**, y T.V. Carmona (2013). La diversidad de los análisis de diversidad. *BIOMA* 14: 20-28.
- Carmona-Galindo, V.**, J.D. Hinton-Hardin\*, J. Kagihara\*, M.R. Pascua\* (2013). Assessing the impact of invasive species management strategies on the population dynamics of castor bean (*Ricinus communis* L., Euphorbiaceae) at two Southern California coastal habitats. *Natural Areas Journal* 33(2): 222-226.
- Dorsey, J. H., **V. Carmona-Galindo**, C. Leary\*\*, J. Huh\*, J. Valdez\*\* (2013). An assessment of fecal indicator and other bacteria from an urbanized coastal lagoon in the city of Los Angeles, California, USA. *Environmental Monitoring & Assessment* 185(3): 2647-2669.
- Foster\*, K., C. Hoey\*, and **V. Carmona-Galindo**. 2013. An examination of *Opuntia littoralis* fruit volume, sugar concentration, number of seeds and average seed mass in relation to fitness. *BIOS* 84(2): 89-91.
- Goodmansen\*, A., **V. Carmona-Galindo**, L. March\*, and C. Charles\* (2013). An evaluation of light environment in the chemical ecology of *Heliconia wagneriana* bract water. *Mesoamericana* 17(2): 9-13.
- Heslin\*, A., L. Liceaga\*, and **V. Carmona-Galindo** (2013). Relationship between elaiosome and EFN gland size in Castor bean (*Ricinus communis* L.), an exotic myrmecophyte in Southern California. *BIOS* 84(3): 180-183.
- Hinton-Hardin\*, J.D., J. Kagihara\*, M.R. Pascua\*, and **V. Carmona-Galindo** (2013). Survivorship of *Ricinus communis* at Ballona Wetlands and Temescal Canyon. *BIOS* 84(4): 237-240.
- King\*, J., **V. Carmona-Galindo**, C. Schomer\*, and K. Sheridan\* (2013). Exploratory correlations among echolocation, noseleaf, and wing morphometrics in Phyllostomid bats. *Mesoamericana* 17(2): 31-37.
- Line\*, S., K. Hong\*, and **V. Carmona-Galindo** (2013). The relationship between castor bean plant age and extrafloral nectary gland size. *BIOS* 84(2): 98-100.
- Moore\*, M., M. Tansuwan\*, and **V. Carmona-Galindo** (2013). Effect of bait treatments and marsh types on the recruitment rate of *Linepithema humile* (Argentine) ants. *BIOS* 84(4): 232-236.
- Rose\*, C., **V. Carmona-Galindo**, J. Doyle\*, and M. Cano\* (2013). Characterization of herbivory in *Cecropia obtusifolia* Bertol., a dioecious myrmecophyte from a lowland rainforest in Costa Rica. *Mesoamericana* 17(1): 57-60.

## 2011

- Bogeberg\*, M., S. Vivanco\*, and **V. Carmona-Galindo** (2011). Relationship between Soil Sodium Concentration and Plant Height in *Salicornia virginica* in the Ballona Wetlands in Los Angeles, California. *BIOS* 82(4): 112-116.
- Goss\*, K., T. Moger\*, A. Nielson\*, and **V. Carmona-Galindo** (2011). Preliminary report: investigation of Castor Bean investment in extra-floral nectary glands and reproduction. *BIOS* 82(2): 43-45.
- Simmons\*, P., E. Vo\*, E. Wight\*, and **V. Carmona-Galindo** (2011). A preliminary study of *Heteromeles arbutifolia* fruit morphology at Ballona Wetlands and Temescal Canyon, Los Angeles, California. *BIOS* 82(4): 117-119.

## 2005

- Carmona-Galindo, V.** (2005). Conditionality in Obligate Ant-Plant Mutualisms from a Neotropical Dry Forest. Ph.D. Dissertation, University of Arkansas.

**Conference Proceedings****2014**

- Forbes\*, N., A. Brown\*, S. Choe\*, and **V. Carmona-Galindo** (2014). Characterization of Seed Predation in Castor Bean (*Ricinus communis* L.) plants in Southern California. Bulletin, Southern California Academy of Sciences 113(2): 127.
- Maser\*, R., E. Dawkins\*, and **V. Carmona-Galindo** (2014). Characterization of Sugar Diversity in Floral and Extrafloral Nectar from the Coastal Coral Tree (*Erythrina caffra* Thunb.) in Southern California. Bulletin, Southern California Academy of Sciences 113(2): 129.
- Reyes\*, N., and **V. Carmona-Galindo** (2014). Proposal of Predator-Mediated Control of the Chagas Vector, *Triatoma infestans*, with the Common House Gecko. Bulletin, Southern California Academy of Sciences 113(2): 131.

**2011**

- Duong\*, J., C. Kim\*, and **V. Carmona-Galindo** (2011). Relationship between *Carpobrotus edulis* (Aizoaceae) Survivorship and Patch Shape. Bulletin, Southern California Academy of Sciences 110(2): 77.
- Gabrielian\*, L., A. Liceaga\*, T. Peterson\*, and **V. Carmona-Galindo** (2011). A Photometric Tool for the Characterization of Anthocyanin Pigments in Sycamore (*Platanus racemosa* Nutt.) Leaves. Bulletin, Southern California Academy of Sciences 110(2): 81.
- Gobrial\*, M., J. Doyle\*, K. Morales\*, and **V. Carmona-Galindo** (2011). Method Development of High Performance Liquid Chromatography Techniques in the Characterization of Extrafloral Nectar Sugars. Bulletin, Southern California Academy of Sciences 110(2): 82-83.
- Rose\*, C., I. Asija\*, R. Sena\*, K. Hughes\*, and **V. Carmona-Galindo** (2011). Photosynthetic Characterization of Invasive Plant Species in Los Angeles County, CA. Bulletin, Southern California Academy of Sciences 110(2): 116.

**2009**

- Quintanilla\*, J., L. Gabrielian\*, and **V. Carmona-Galindo** (2009). An Herbarium Study of the Phenology of Four Wet-Season Deciduous Tropical Plant Species. Bulletin, Southern California Academy of Sciences. 108(2): 113.

**2008**

- C.M. Prager\*, **V. Carmona-Galindo**, H.E. Braker (2008). Plant architecture and habitat variation of the exotic ant-plant *Ricinus communis* (L.) across tropical landscapes. Bulletin of the Ecological Society of America 89(Suppl.): 282.

**Open-Access Course Books**

- Lindquist, E., **V. Carmona-Galindo**, and R. Chaves\* (2004). Tropical Biology: An Ecological Approach, San José, Costa Rica: Organization for Tropical Studies.
- Lindquist, E., **V. Carmona-Galindo**, and P. Allen\* (2003). Tropical Biology: An Ecological Approach, San José, Costa Rica: Organization for Tropical Studies.
- McClearn, D., C. Nufio, and **V. Carmona-Galindo** (2001). Tropical Biology: An Ecological Approach, San José, Costa Rica: Organization for Tropical Studies.
- McClearn, D., B. Boyle, and **V. Carmona-Galindo\*** (1999). Tropical Biology: An Ecological Approach, San José, Costa Rica: Organization for Tropical Studies.
- McClearn, D., C. Harvey, and **V. Carmona-Galindo\*** (1998). Tropical Biology: An Ecological Approach, San José, Costa Rica: Organization for Tropical Studies.
- McClearn, D., T. Singer, and **V. Carmona-Galindo\*** (1997). Tropical Biology: An Ecological Approach, San José, Costa Rica: Organization for Tropical Studies.

**Grants Awarded**

- Academic Technology Grant (\$2,000)**; Information Technology Services; Loyola Marymount University 2016  
*Virtual reality as a tool for global engagement in an introductory biology course*
- Online/ Hybrid Course Development Grant Application (\$2,000)**; Office for Technology Enhanced Learning; Loyola Marymount University 2016  
*Web-enhancements for General Biology II (BIOL 102), an introductory biology course*
- Academy of Catholic Thought and Imagination (\$10,000)**; Loyola Marymount University 2015  
*Jesuit Science in Latin America: Revolutionizing Academic Tourism in the Evolution of Social Justice*
- Academic Technology Summer Grant (\$1,000)**; Information Technology Services, Loyola Marymount University 2015  
*Integrating drones as a research tool in field biology*

<b>College Equipment Request</b> (\$8,336); College of Science and Engineering, Loyola Marymount University <i>Integrating drones as a research tool in field biology</i>	2015
<b>Research Fund Grant</b> (\$5,000); College of Science and Engineering, Loyola Marymount University <i>Chemical ecology of Argentine ant interactions with two myrmecophytic plant species in southern California</i>	2014
<b>Kadner-Pitts Research Grant</b> (\$10,000); Biology Department, Loyola Marymount University <i>Keystone Mutualisms: exploring the role of symbiotic ants in maintaining Neotropical dry forest diversity</i>	2013
<b>Research Fund Grant</b> (\$5,000); College of Science and Engineering, Loyola Marymount University <i>In-Situ Photometric Characterization of Plant Defense Chemistry</i>	2013
<b>Keck Interdisciplinary Course Grant</b> (\$2,500); College of Science and Engineering, Loyola Marymount University <i>Chemical Ecology</i>	2013
<b>Faculty Service Grant</b> (\$5,000); College of Science and Engineering, Loyola Marymount University <i>Seeding Teacher-Scholar Synergies at the only Biology Department in El Salvador</i>	2013
<b>US Core Fulbright Scholar Program</b> (\$31,240) <i>The role of ant-plant mutualisms in the successional dynamics of Mesoamerican dry forests</i>	2012
<b>National Geographic Society/ Waitt Grant</b> (\$15,000) <i>Keystone mutualisms: Exploring the role of symbiotic ants in maintaining Neotropical dry forest diversity</i>	2012
<b>Continuing Faculty Grant</b> (\$5,000); College of Science and Engineering, Loyola Marymount University <i>Fulbright Scholarship Addendum: Ecology of Ant-Plant Mutualisms</i>	2012
<b>Plugging into Pedagogy</b> (\$500); Information Technology Services, Loyola Marymount University <i>Using Tablet PCs to Enhance Interactivity in Biology Lectures</i>	2011
<b>Continuing Faculty Grant</b> (\$5,000); College of Science and Engineering, Loyola Marymount University <i>Chemical Ecology of Extrafloral Nectar Gland Secretions</i>	2010
<b>Kadner-Pitts Research Grant</b> (\$10,000); Biology Department, Loyola Marymount University <i>Chemical Ecology of Extrafloral Nectar</i>	2009
<b>Academic Technology Grant</b> (\$6,000); Information Technology Services, Loyola Marymount University <i>Principles of Ecology / Field Biology</i>	2008
<b>Research Pilot-Award</b> (\$1,500); Organization for Tropical Studies <i>Intraspecific sexual dimorphisms in frugivorous bats of La Selva (Carollinae and Stenodermatinae)</i>	2007
<b>Dissertation Year Award</b> (\$24,000); Southern Regional Education Board <i>Spatial and temporal variability in the stability and persistence of two dry forest ant-plant mutualisms from Guanacaste, Costa Rica</i>	2003 - 2005
<b>David Causey Award</b> (\$300); University of Arkansas <i>Spatial and temporal variability in the stability and persistence of two dry forest ant-plant mutualisms from Guanacaste, Costa Rica</i>	2003
<b>Post-Course Award</b> (\$500); Tropical Plant Systematics, Organization for Tropical Studies <i>When the cupboards are bare: The effect of seasonality on an ant-plant mutualism in a tropical dry forest.</i>	2001
<b>Gentry Land and Water Resources Award</b> (\$500); University of Arkansas	2001
<b>Grants-in-Aid Award</b> (\$500); Sigma Xi, The Scientific Research Society <i>When the cupboards are bare: The effect of seasonality on an ant-plant mutualism in a tropical dry forest.</i>	2000
<b>Post-Course Award</b> (\$500); Biología Tropical y Conservación, Organization for Tropical Studies <i>Ayúdame que yo te ayude: Evidencia de un mutualismo condicional en la interacción <u>Acacia-Pseudomyrmex</u> [Help me help you: Evidence of a conditional mutualism in the <u>Acacia-Pseudomyrmex</u> interaction]</i>	2000
<b>Invited Research Seminars</b>	
<b>Southern California Academy of Sciences Annual Meeting</b> , Santa Monica College Santa Monica, California <i>Using drone-imagery to Study the Ecological Dynamics of a Neotropical Premontane Thorn Woodland</i>	2017

<b>University of Detroit Mercy</b> , College of Engineering and Science Detroit, Michigan <i>Linking Ecology and Social Justice as an Integrative Framework for Sustainability in STEM</i>	2017
<b>Loyola Marymount University</b> , College of Communication and Fine Arts, Communications and Technology Committee Los Angeles, California <i>Unplugging the Traditional Classroom: Expanding into a Collaborative Learning Experience</i>	2017
<b>Loyola Marymount University</b> , Technology Enhanced Learning Office, Hands-On Technology Workshops Los Angeles, California <i>Unplugging the Traditional Classroom: Expanding into a Collaborative Learning Experience</i>	2016
<b>Loyola Marymount University</b> , Mission and Ministry, Agape Latte Speaker Series Los Angeles, California <i>Linking Tropical Science to Social Justice</i>	2016
<b>California State University, Dominguez Hills</b> , Organización Latinamericana Estudiantil (OLE) Los Angeles, California <i>The Ecology of Climate Change and the Challenges for Latin America</i>	2016
<b>Loyola Marymount University</b> , Biology Department Seminar Series Los Angeles, California <i>Ecological Dynamics of <u>Mycobacterium</u> Phage Assemblages</i>	2016
<b>Congreso de Ingenieria y Arquitectura</b> , Universidad Centroamericana "José Simeón Cañas" La Libertad, El Salvador <i>La Ecología de la Variación y la Recuperación de los Servicios del Ecosistema en El Salvador [The Ecology of Variation and the Recovery of Ecosystem Services in El Salvador]</i>	2016
<b>University of Detroit Mercy</b> , College of Engineering and Science Detroit, Michigan <i>Voiding Warranties: Reenvisioning Technology to Integrate Research Mentorship, Social Justice, and Global Engagement</i>	2016
<b>Loyola Marymount University</b> , Biology Department Seminar Series Los Angeles, California <i>Ecological Dynamics of a Tropical Premontane Thorn Woodland from Sierra Fria, Mexico.</i>	2015
<b>Congreso de Ingenieria y Arquitectura</b> , Universidad Centroamericana "José Simeón Cañas" La Libertad, El Salvador <i>La Ecología del Cambio Climático y los Retos para El Salvador [The Ecology of Climate Change and the Challeges for El Salvador]</i>	2015
<b>Loyola Marymount University</b> , Academic Technology Committee Summer Grant Gallery Walk Los Angeles, California <i>Integrating drones as a research tool in field biology</i>	2015
<b>Loyola Marymount University</b> , Joint meeting of the Board of Trustees and Board of Regents Palos Verdes, California <i>Darwin's [R]evolution and the Ecology of Variation</i>	2015
<b>Westminster College</b> , Biology Department Salt Lake City, Utah <i>The Ecology of Darwin's [R]evolution</i>	2015
<b>Primer Congreso Nacional de Cambio Climático</b> , University of El Salvador, San Salvador, El Salvador <i>La Ecología del Cambio Climático y los Retos para El Salvador [The Ecology of Climate Change and the Challeges for El Salvador]</i> <i>Fotosíntesis, especies invasoras, y el papel de las colecciones biológicas digitalizadas en la investigación sobre cambio climático [Photosynthesis, Invasive Species, and the Role of Online Biological Collections on Climate Change Research].</i>	2014
<b>Loyola Marymount University</b> , Biology Department Seminar Series Los Angeles, California <i>The Ecology of Climate Change</i>	2014

<b>Embassy of the United States of America</b> , Fulbright Showcase Seminar Series La Libertad, El Salvador <i>Fotosíntesis, especies invasoras, y el papel de las colecciones biológicas digitalizadas en los estudios de cambio climático</i> [Photosynthesis, Invasive Species, and the Role of Online Biological Collections in the Study of Climate Change].	2014
<b>Universidad Francisco Gavidia</b> , Center for Continuing Education and the Institute for Science, Technology, and Innovation San Salvador, El Salvador <i>La Ecología del Cambio Climático y los Retos para El Salvador</i> [The Ecology of Climate Change and the Challenges for El Salvador]	2014
<b>Universidad Católica de El Salvador &amp; Embassy of the United States of America</b> , American Spaces Seminar Series Santa Ana, El Salvador <i>La Ecología del Cambio Climático y los Retos para El Salvador</i> [The Ecology of Climate Change and the Challenges for El Salvador]	2014
<b>National Council on Science and Technology [CONACYT]</b> , Vice-Ministry of Science and Technology, Ministry of Education San Salvador, El Salvador <i>La Ecología del Cambio Climático y los Retos para El Salvador</i> [The Ecology of Climate Change and the Challenges for El Salvador]	2014
<b>Supreme Court of Justice of the Republic of El Salvador</b> , Environmental Science Taskforce San Salvador, El Salvador <i>La Ecología del Cambio Climático y los Retos para El Salvador</i> [The Ecology of Climate Change and the Challenges for El Salvador]	2014
<b>Universidad de El Salvador</b> , College of Natural Sciences and Mathematics San Salvador, El Salvador <i>La Ecología del Cambio Climático</i> [The Ecology of Climate Change]	2014
<b>Universidad Francisco Gavidia</b> , College of Law Sciences San Salvador, El Salvador <i>La Ecología del Cambio Climático y los Retos para El Salvador</i> [The Ecology of Climate Change and the Challenges for El Salvador]	2014
<b>Loyola Marymount University</b> , Biology Department Seminar Series Los Angeles, California <i>Chemical Ecology of Extrafloral Nectar Secretions from an Exotic Myrmecophyte</i>	2013
<b>Sigma Xi Scientific Research Society</b> , Loyola Marymount University Chapter Los Angeles, California <i>Ecology &amp; Global Citizenship: Lessons from the only Biology Department in El Salvador</i>	2013
<b>Loyola Marymount University</b> , Biology Department Seminar Series Los Angeles, California <i>Ecology &amp; Global Citizenship: My Fulbright with the only Biology Department in El Salvador</i>	2013
<b>Embassy of the United States of America</b> , Fulbright Showcase Seminar Series La Libertad, El Salvador <i>La Ecología del Cambio Climático y los Retos para El Salvador</i> [The Ecology of Climate Change and the Challenges for El Salvador]	2013
<b>Supreme Court of Justice of the Republic of El Salvador</b> , Environmental Science Taskforce San Salvador, El Salvador <i>La Ecología del Cambio Climático</i> [The Ecology of Climate Change]	2012
<b>Universidad Centroamericana José Simeón Cañas</b> , College of Architecture and Engineering San Salvador, El Salvador <i>La Ecología del Cambio Climático</i> [The Ecology of Climate Change]	2012
<b>Universidad de El Salvador</b> , College of Natural Sciences and Mathematics San Salvador, El Salvador <i>La Ecología del Cambio Climático</i> [The Ecology of Climate Change]	2012



<b>Universidad de El Salvador</b> , School of Biology San Salvador, El Salvador <i>Comunidades de Aprendizaje como Modelo para la Investigación Ecológica a Largo-Plazo</i> [ <i>Learning Communities as a Model for Long-Term Ecological Research</i> ]	2012
<b>Beta Beta Beta National Biological Honor Society</b> , Executive Board Meeting University of Puerto Rico - Cayey, Cayey, Puerto Rico <i>Learning Communities as a Model for Long-Term Ecological Research</i>	2012
<b>Southern California Urban Wetland Research Symposium</b> , Loyola Marymount University Los Angeles, California <i>Learning Communities as a Model for Long-Term Ecological Research</i>	2012
<b>Center for Teaching Excellence</b> , Loyola Marymount University Los Angeles, California <i>Field Biology ex vitro: Rethinking Ecological Pedagogy Outside of the Laboratory</i>	2010
<b>Center for Teaching Excellence</b> , Loyola Marymount University Los Angeles, California <i>Field Biology ex vitro: Rethinking Ecological Pedagogy Outside of the Laboratory</i> (POSTER)	2009
<b>Loyola Marymount University</b> , Department of Biology Los Angeles, California <i>The Ecology of Conditional Mutualisms</i>	2008
<b>Harvey Mudd College</b> , Department of Biology Claremont, California <i>The Ecology of Conditional Mutualisms</i>	2008
<b>Pennsylvania State University</b> , La Selva Biological Station Puerto Viejo de Sarapiquí, Costa Rica <i>The Ecology of Conditional Mutualisms</i>	2007
<b>Organization for Tropical Studies</b> , La Selva Biological Station Puerto Viejo de Sarapiquí, Costa Rica <i>The Ecology of Conditional Mutualisms</i>	2007
<b>California State University at Fullerton</b> , Department of Biology Fullerton, California <i>The Ecology of Conditional Mutualisms</i>	2006
<b>Organization for Tropical Studies</b> , Palo Verde Biological Station Guanacaste, Costa Rica <i>The Ecology of Conditional Mutualisms</i>	2004

#### CONFERENCE PRESENTATIONS

##### 2017 Southern California Academy of Sciences Annual Meeting

Santa Monica College, Santa Monica, CA

- Poster by M. Dix, M. Zarekari, and M. Recinos  
*Biogenic Volatile Organic Compounds*

##### 2017 Undergraduate Research Symposium

Loyola Marymount University, Los Angeles, CA

- Poster by A. Garcia, L. Mendez, G. Padilla, M. Castellanos  
*Conservation Enhancements for a Remote Biological Field Station in Mexico's Western Sierra Madre*
- Poster by C. Wikholm  
*Investigating the Role of Heavy Metals on Interspecies and Intraspecies Interactions of Invertebrates and Vertebrates*
- Poster by I. Lopez, and C. Wikholm  
*California Horn Snail exhibit a bimodal size distribution and size-associated dispersal patterns*
- Poster by B. Besharat  
*Ant density and EFN gland morphology in castor bean plants*
- Poster by K. Johnson, and A. Groat-Carmona  
*Ecological Diversity of Mycobacteriophages*
- Poster by K. Alvarez, Y. Ting, and N. Orban  
*GIS as a Tool for Evaluating Ecological Relationships*

- Poster by K. Alvarez, and S. Ben-David  
*Flavonoid Content and Pollinator Visitation in Rhaphiolepis indica*
- Poster by M. Hong, M. McPherson, A. Heck, and C. Merriam  
*The Effects of Abiotic Factors on the Biotic Defense of Castor Bean (Ricinus communis)*
- Poster by Y. Ting, M. Castellanos, and E. Dawkins  
*The Impact of Cattle on the Population Dynamics of a High Elevation Thorn-woodland Clonal Oak (Quercus potosina) in the Sierra Fria Mountains of Aguascalientes, Mexico*
- Poster by N. Forbes, S. Kodama, J. Stuienvolt-Allen, and N. Victoria  
*Unmanned aerial vehicles as quantitative tools for the evaluation of plant population dynamics*
- Poster by R. Bremer, M. Dix, J. Lugo, and R. Sanders  
*Modeling Temperature Variation using Drones to Inform Tropical Forest Management Strategies*

### 2016 American Geophysical Union

San Francisco, California

- Poster by N. Bouvier-Brown and V. Carmona-Galindo.  
Insights from a modular interdisciplinary laboratory course

### 2016 Conferencia de Ingeniera y Arquitectura

Universidad Centroamericana "José Simeón Cañas", La Libertad, El Salvador

- Poster by A. Castillo-Ayala, A. Romero, J. Amaya, E. Posada, S. Gámez, G. Recinos, and M. Marin.  
*Evaluación de fuentes alimentarias, localidad sociopolítica y ecología de Triatoma dimidiata (Hemiptera: Reduviidae) en ambientes domiciliarios de la región oriental de El Salvador.* [Evaluation of trophic relations, distribution, and ecology of *Triatoma dimidiata* (Hemiptera: Reduviidae) in interior urban environments from the eastern region of El Salvador]
- Poster by N. Forbes, S. Kodama, J. Stuienvolt-Allen, and N. Victoria  
*Vehículos-Aéreos-No-Tripulados (Drones) como herramientas cuantitativas para la evaluación de la dinámica poblacional de plántulas* [Unmanned aerial vehicles as quantitative tools for the evaluation of plant population dynamics]
- Poster by F. Mendez and J. Dorsey  
*Eficacia de jardines fabricados en el Arroyo de Ballona, Los Ángeles* [Efficiency of rain gardens in Ballona Creek]
- Poster by J. Pablo-Cea and M. Velado-Cano.  
*Acción de Acrocinus longimanus (Cerambycidae) y su relación con Ateles geoffroyi (Atelidae) en Chaguantique, El Salvador* [Interactions and relationships between *Acrocinus longimanus* (Cerambycidae) and *Ateles geoffroyi* (Atelidae) in Chaguantique, El Salvador]
- Poster by J. Plasencia, M. Blacet, V. Munoz, and J. Pal  
*Restauración del Río Acelhualte* [Restoration of the Acelhuate river]
- Poster by S. Vásquez, J. Aguilera, E. Posada, H. Torres, and A. Trejo.  
*Evaluación de la flotabilidad de los insectos zapateros (Hemiptera: Gerridae) ante la presencia de detergente* [Evaluation of surfactants on water strider (Hemiptera: Gerridae) locomotion]
- Poster by R. Bremer, M. Dix, J. Lugo, and R. Sanders  
*Modelando la variación de temperaturas usando drones para informar estrategias de manejo de bosque tropical* [Modeling Temperature Variation using Drones to Inform Tropical Forest Management Strategies]
- Poster by G. Erazo-Alfaro, M. González-Alvarenga, J. Quintanilla-Palomo, J. Reyes Bonilla, G. Recinos Paredes, and J. Zuniga Cañas.  
*Evaluación y aislamiento de Escherichia coli en el refresco natural de "arrayan" (Psidium sp.) mediante el método tradicional* [Isolation and evaluation of *Escherichia coli* in "soursop" (*Psidium* sp) fruit juice by means of standard protocols]

### 2016 Undergraduate Research Symposium

Loyola Marymount University, Los Angeles, CA

- Poster by M. Castellanos, J. Lugo, and N. Bouvier-Brown  
*Biogenic Volatile Organic Compounds as Communication Signals between Foraging Linepithema humile Ants*
- Poster by J. Lugo and M. Erike  
*Quantification of Anthocyanins with UV Spectroscopy*
- Poster by I. Lopez, C. Wikholm, A. Napior, and S. Ahmad  
*Cerithideopsis californica in Ballona Wetlands exhibit a bimodal size distribution and size-associated differences in dispersion patterns*

- Poster by J. Stuijvenolt Allen and M. De Leon  
*Amblysius degenerans and Frankliniella occidentalis on Castor bean (Ricinus communis); Testing Predictions of The Janzen—Connell Hypothesis in Response to Mutualisms*
- Poster by A. Abesamis, S. Gharabegian, and K. Hill  
*Ecological Applications of Unmanned Aerial Vehicles*
- Poster by C. Aliman, G. Casagrande, J. Camillo, and N. Bouvier-Brown  
*Comparison of allelopathic potential and biogenic volatile organic compound content of Carpobrotus hybrids in two coastal microclimates in Southern California*
- Poster by M. Ho and C. Aliman  
*Relationships of Location and Quantity of EFN Glands with Recruitment of Ants*
- Poster by A. Brown and N. Forbes  
*Characterization of Seed Predation in Castor Bean (Ricinus communis L.) Plants in Southern California*
- Poster by C. Wikholm  
*Survey of heavy metal concentrations in insects and western fence lizards of the Ballona Wetlands of Los Angeles, California*
- Poster by A. Rabe and K. Lawrence  
*Using Drones to Optimize Invasive Species Management Strategies*
- Poster by B. Angelo and L. Ellis  
*Analysis of Ricinus communis explosive dehiscence for ecological and managerial implications*
- Poster by G. Huacuja and K. Larbie  
*Quantitation of Anthocyanins in an Exotic Myrmecophyte via UV/Vis Spectroscopy*
- Poster by R. Al-khayat, E. Eberts, and L. Pangburn  
*Photosynthetic Characterization of Invasive Plant Species in Los Angeles County, CA*

#### 2015 Conferencia de Ingeniera y Arquitectura

Universidad Centroamericana “José Simeón Cañas”, La Libertad, El Salvador

- Poster by L. Pangburn and E. Eberts  
*Caracterización fotosintética de plantas invasoras en el condado de Los Angeles, California (EEUU)* [Photosynthetic Characterization of Invasive Plant Species in Los Angeles County, California (USA)]
- Poster by A. Napior, G. Guerra, B. Scharf, A. Hirsch, M. Lum, and N. Fujishige  
*El papel de pilA1 y pilA2 en el acoplamiento de Sinorhizobium meliloti con las raíces de Melilotus alba y el desarrollo de los nódulos radiculares* [The role of pilA1 and pilA2 in attachment of Sinorhizobium meliloti to Melilotus alba roots and in the development of nodules]
- Poster by T. Arhar, N. Pihl, and D. Moffet  
*La Caracterización Agregada del tipo-silvestre p53 y seis mutantes comunes de p53* [Aggregation Characterization of Wild-Type p53 and Six Common p53 Mutants]
- Poster by R. Rivera and R. Toal  
*Exploración del Lenguaje de Programación* [Programming Language Explorations]
- Poster by T. Arhar, K. Orban, Y. Fang, and C. Urbinati  
*El descubrimiento y la caracterización de los fagos novedosos FriendlyEddie, Fudge, y Soto* [Discovery and Characterization of Novel Phages FriendlyEddie, Fudge and Soto]
- Poster by Y. Martínez-Rodríguez  
*Diversidad ictioparasitario en mono y poltilapicultivo del centro experimental de acuicultura, Escuela de Biología, Universidad de El Salvador* [Ichtioparasitic diversity in mono- and poly-cultures at the aquiculture experimental center in the School of Biology at the University of El Salvador]
- Poster by G. Vides-Hernández, M. Velado-Cano and J. Pablo-Cea  
*Geografía ecológica de aves en áreas verdes del centro urbano de San Salvador, El Salvador* [Geographic ecology of birds from green areas in the urban center of San Salvador, El Salvador]
- Poster by C. P. Vásquez-Martínez, C. R. Quintanilla-Quintanilla, and S. M. López-Garay  
*Biogeografía de Líquenes Epífitos en Islas Hábitat de San Salvador, El Salvador* [Biogeography of Epiphytic Lichens in Habitat Islands from San Salvador, El Salvador]

#### 2015 Undergraduate Research Symposium

Loyola Marymount University, Los Angeles, CA

- Oral presentation by K. Wikholm, W. Gendron, and M. Shibatsuj  
*Survey of heavy metal concentrations in insects of the Ballona Wetlands of Los Angeles, California*

- Poster by M. Castellanos  
*Translating Biota, a database management system for biological specimen information*
- Poster by J. Lugo and M. Erike  
*Evaluation of Mixed Strategies of Plant Defense via Portable UV-Vis Spectroscopy*
- Poster by A. Abesamis, J. Bleck, K. Benavides, S. Gharabegian  
*Effects of Reproductive State on Biotic Defense in the r-selected Ricinus communis*
- Poster by A. Brown and N. de la Cruz  
*Foraging behaviors of Argentine ants in urban and natural riparian habitats*
- Poster by B. Bubic, M. Kerr, P. Hughes, G. Habig  
*Dispersal patterns of Cortaderia selloana in the Ballona wetlands of southern California*
- Poster by N. Forbes, A. Brown, S. Choe  
*Characterization of seed predation in Castor Bean (Ricinus communis L.) plants in southern California*
- Poster by N. Forbes, M. Wesseln, C. Jones, and S. Choe  
*The Effect of Sugar Concentration, Quantity, and Placement of Artificial EFN Glands on the recruitment of Ant*
- Poster by I. Popova, and J. Gonzalez  
*The effects of microclimates and drought on Opuntia littoralis fruit morphology (fruit volume, sugar concentration, number of seeds and seed mass) in southern California*
- Poster by D. Hollis, N. Reyes, and T. Waters  
*Population dynamics of the Chagas disease vector (Triatoma dimidiata) in El Salvador*

#### 2014 Primer Congreso Nacional de Cambio Climático

San Salvador, El Salvador

- Poster by N. Reyes, D. Hollis, T. Waters, and L. Pennington  
*Dinámica poblacional del vector de la enfermedad de Chagas (Triatoma infestans) en El Salvador* [Population dynamics of the Chagas disease vector (*Triatoma infestans*) in El Salvador]
- Poster by L. Pangburn, E. Eberts, and A. Napior  
*Caracterización fotosintética de plantas invasoras en el condado de Los Angeles, California (EEUU)* [Photosynthetic Characterization of Invasive Plant Species in Los Angeles County, California (USA)]
- Poster by M. Castellanos  
*Traducción de Biota, un sistema para el manejo de bases de datos para información de especímenes biológicos* [Translating Biota, a database management system for biological specimen information]
- Poster by Y. Martínez-Rodríguez  
*Diversidad ictioparasitario en mono y polilapicultivo del centro experimental de acuicultura, Escuela de Biología, Universidad de El Salvador* [Ichtioparasitic diversity in mono- and poly-cultures at the aquiculture experimental center in the School of Biology at the University of El Salvador]
- Poster by G. Vides-Hernández, M. Velado-Cano and J. Pablo-Cea  
*Geografía ecológica de aves en áreas verdes del centro urbano de San Salvador, El Salvador* [Geographic ecology of birds from green áreas in the urban center of San Salvador, El Salvador]

#### 2014 Southern California Academy of Sciences Annual Meeting

California State University Channel Islands, Camarillo, CA

- Poster by A. Brown, S. Choe, and N. Forbes  
*Characterization of seed predation in Castor Bean (Ricinus communis L.) plants in southern California*
- Poster by R. Maser, K. Morales, and E. Dawkins  
*Characterization of Sugar Diversity in Floral and Extra Floral Nectar from the Coastal Coral Tree (Erythrina caffra Thunb.) in Southern California*
- Poster by N. Reyes  
*Proposal of Predator-Mediated Control of the Chagas Vector, Triatoma infestans, with the Common House Gecko*

#### 2014 Beta Beta Beta National Biological Honor Society Western Regional Conference

Chapman University, Orange, CA

- Poster by N. Reyes  
*Proposal of Predator-Mediated Control of the Chagas Vector, Triatoma infestans, with the Common House Gecko*
- Poster by E. Hand, S. Morledge-Hampton, R. Sears, and T. Vilgalys  
*Exploration of climate influences on the abundance of galls on red willow (Salix laevigata) across two riparian communities in Southern California*

- Poster by G. Casagrande and D. Rodriguez  
*Effects of Black Mustard allelopathy on the fitness and life history of Buffalo Gourds in Southern California*

#### 2014 Undergraduate Research Symposium

Loyola Marymount University, Los Angeles, CA

- Poster by M. Ha, S. Powell, and J. Wu  
*Color Polymorphism of Salicornia pacifica at Ballona Wetlands in Los Angeles*
- Poster by E. Eberts and L. Pangburn  
*Photosynthetic Characterization of Invasive Plant Species in Los Angeles County, CA*
- Poster by S. Martin, J. San Luis, and B. Saulsbury  
*Argentine Ant (Linepithema humile Mayr) sugar-bait preferences in a coastal sage scrub community invaded by Castor bean (Ricinus communis L.)*
- Poster by P. Bergin, G. Lopez, and A. Simonian  
*Fitness and life history trade-offs of Toyon (Heteromeles arbutifolia) along an elevational gradient in Southern California*
- Poster by K. Cerda and M. Courtois  
*Intraspecific and Interspecific Interactions in the American Coot (Fulica americana) at Ballona Wetlands in Los Angeles, CA*
- Poster by J. Camillo, V. George, and F. James  
*Quantitation of Anthocyanins in an Exotic Myrmecophyte Via UV/VIS Spectroscopy*
- Poster by G. Casagrande and D. Rodriguez  
*Effects of Black Mustard allelopathy on the fitness and life history of Buffalo Gourds in Southern California*
- Poster by D. Chirikian and T. Waters  
*Insect visitation of peduncular and petiolar extrafloral nectar glands on Castor Bean (Ricinus communis L.) in Southern California*
- Poster by E. Hand, S. Morledge-Hampton, R. Sears, and T. Vilgalys  
*Exploration of climate influences on the abundance of galls on red willow (Salix laevigata) across two riparian communities in Southern California*
- Poster by R. Maser, K. Morales, and E. Dawkins  
*Characterization of Sugar Diversity in Floral and Extra Floral Nectar from the Coastal Coral Tree (Erythrina caffra Thunb.) in Southern California*
- Poster by A. Brown, S. Choe, and N. Forbes  
*Characterization of seed predation in Castor Bean (Ricinus communis L.) plants in southern California*

#### 2014 Southern California Urban Wetland Research Symposium

Loyola Marymount University, Los Angeles, CA

- Poster by E. Hand, S. Morledge-Hampton, R. Sears, and T. Vilgalys  
*Exploration of climate influences on the abundance of galls on red willow (Salix laevigata) across two riparian communities in Southern California*
- Poster by R. Maser, K. Morales, and E. Dawkins  
*Characterization of Sugar Diversity in Floral and Extra Floral Nectar from the Coastal Coral Tree (Erythrina caffra Thunb.) in Southern California*

#### 2013 XI Congreso Centroamericano y del Caribe de Parasitología y Medicina Tropical

San Salvador, El Salvador

- Oral Presentation by Y. Martínez-Rodríguez  
*Diversidad ictioparasitario en mono y polilapicultivo del centro experimental de acuicultura, Escuela de Biología, Universidad de El Salvador*

#### 2013 Southern California Conference for Undergraduate Research

Whittier College, Whittier, CA

- Poster by R. Maser, K. Morales, and E. Dawkins  
*Characterization of Sugar Diversity in Floral and Extra Floral Nectar from the Coastal Coral Tree (Erythrina caffra Thunb.) in Southern California*
- Poster by N. Forbes, and A. Brown  
*Characterization of seed predation in Castor Bean (Ricinus communis L.) plants in southern California*
- Poster by E. Eberts, and L. Pangburn  
*Photosynthetic Characterization of Invasive Plant Species in Los Angeles County, CA*

**2012 Biennial National Convention of the Beta Beta Beta National Biological Honor Society**

University of Puerto Rico at Carolina, Carolina, Puerto Rico

- Poster by M. Gobrial, J. Doyle, and K. Morales  
*Method Development of High Performance Liquid Chromatography Techniques in the Characterization of Extrafloral Nectar Sugars*
- Poster by J. Doyle, M. Cano, and C. Rose  
*Characterization of herbivory in Cecropia obtusifolia, a dioecious ant-plant mutualism from a lowland rainforest in Costa Rica*

**2012 Undergraduate Research Symposium**

Loyola Marymount University, Los Angeles, CA

- Poster by M. Catala and J. Aquino  
*Impact of Irrigation Systems on Arthropod Community Composition of Coastal Sage Scrub Along Ballona Wetlands*

**2011 Southern California Conference for Undergraduate Research**

Mt. San Antonio College, Walnut, CA

- Poster by J. Doyle, M. Cano, and C. Rose  
*Characterization of herbivory in Cecropia obtusifolia, a dioecious ant-plant mutualism from a lowland rainforest in Costa Rica*

**2011 Southern California Academy of Sciences Annual Meeting**

California State Polytechnic University, Pomona, CA

- Poster by J. Duong and C. Kim  
*Relationship between Carpobrotus edulis (Aizoaceae) Survivorship and Patch Shape*
- Poster by L. Gabrielian, A. Liceaga, and T. Peterson  
*A Photometric Tool for the Characterization of Anthocyanin Pigments in Sycamore (Platanus racemosa Nutt.) Leaves*
- Poster by M. Gobrial, J. Doyle, and K. Morales  
*Method Development of High Performance Liquid Chromatography Techniques in the Characterization of Extrafloral Nectar Sugars*
- Poster by C. Rose, I. Asija, R. Sena, and K. Hughes  
*Photosynthetic Characterization of Invasive Plant Species in Los Angeles County, CA*

**2011 Beta Beta Beta National Biological Honor Society Western Regional Conference**

Azusa Pacific University, Azusa, CA

- Poster by M. Gobrial, J. Doyle, and K. Morales  
*Method development of High Performance Liquid Chromatography techniques in the Characterization of Extra-floral Nectar Sugars*
- Poster by J. Duong and C. Kim  
*Relationship between Carpobrotus edulis (Aizoaceae) Survivorship and Patch Shape*
- Poster by K. Foster and C. Hoey  
*An Examination of Opuntia littoralis Fruit in Relation to Aspect-related Microclimate*
- Poster by L. Gabrielian, A. Liceaga, and T. Peterson  
*A Photometric Tool for the Characterization of Anthocyanin Pigments in Leaves*
- Poster by M. Groom and E. Keyes  
*Relationship between the density of stem and leaf insect galls and the role of urbanization on Salix parasites*
- Poster by C. Hale, T. Peterson, and R. Srungaram  
*A survey of effects of R. communis on Temescal Canyon Riparian Communities*
- Poster by C. Rose, I. Asija, K. Hughes, and R. Sena  
*Photosynthetic Characterization of Invasive Plant Species in Los Angeles County, CA*

**2011 Undergraduate Research Symposium**

Loyola Marymount University, Los Angeles, CA

- Poster by M. Gobrial, J. Doyle, and K. Morales  
*Method development of High Performance Liquid Chromatography techniques in the Characterization of Extra-floral Nectar Sugars*
- Poster by J. Duong and C. Kim  
*Relationship between Carpobrotus edulis (Aizoaceae) Survivorship and Patch Shape*

- Poster by K. Foster and C. Hoey  
*An Examination of Opuntia littoralis Fruit in Relation to Aspect-related Microclimate*
- Poster by L. Gabrielian, A. Liceaga, and T. Peterson  
*A Photometric Tool for the Characterization of Anthocyanin Pigments in Leaves*
- Poster by M. Groom and E. Keyes  
*Relationship between the density of stem and leaf insect galls and the role of urbanization on Salix parasites*
- Poster by C. Hale, T. Peterson, and R. Srungaram  
*A survey of effects of R. communis on Temescal Canyon Riparian Communities*
- Poster by C. Rose, I. Asija, K. Hughes, and R. Sena  
*Photosynthetic Characterization of Invasive Plant Species in Los Angeles County, CA*

#### **2010 West Coast Biological Sciences Undergraduate Research Conference**

Santa Clara University, Santa Clara, CA

- Poster by D. Hinton-Hardin, J. Kagihara, and M. Pascua  
*Assessment of Invasive Species Management Using Survivorship and Fecundity*

#### **2010 Undergraduate Research Symposium**

Loyola Marymount University, Los Angeles, CA

- Poster by D. Hinton-Hardin, J. Kagihara, and M. Pascua  
*Survivorship of Ricinus communis at Ballona Wetlands and Temescal Canyon*
- Poster by A. Longley, N. Masnada, and A. Patel  
*Relationship between Sugar Concentration and Leaf Asymmetry in Heteromeles arbutifolia*
- Poster by M. Moore and M. Tansuwan  
*Effect of Bait Treatments and Marsh Types on the Recruitment Rate of Linepithema humile*

#### **2009 Undergraduate Research Symposium**

Loyola Marymount University, Los Angeles, CA

- Oral presentation by S. Bondy, C. Villaflores, and S. Garrard  
*Relationship between extra-floral nectaries and Linepithema humile ants with respect to position along the petiole of Ricinus communis Castor plant*
- Poster by S. Carbajal, C. Fujinaka, and T. Mock  
*How Does Habitat Conversion in the Ballona Wetlands Alter Arthropod Diversity?*

#### **2009 Southern California Academy of Sciences Annual Meeting**

Marymount College, Rancho Palos Verdes, CA

- Poster by J. Quintanilla and L. Gabrielian  
*An Herbarium Study of the Phenology of Four Wet-Season Deciduous Tropical Plant Species*

#### **2009 Southern California Conference for Undergraduate Research**

California State University at Dominguez Hills, Carson, CA

- Poster by S. Garrard and K. Bush  
*Comparative morphology of extra-floral nectaries found on Castor bean (Euphorbiaceae) inflorescences*
- Poster by J. Quintanilla and L. Gabrielian  
*An Herbarium Study of the Phenology of Four Wet-Season Deciduous Tropical Plant Species*

#### **2008 Ecological Society of America Annual Meeting**

Milwaukee, WI

- Oral presentation by C.M. Prager  
*Plant architecture and habitat variation of the exotic ant-plant Ricinus communis (L.) across tropical landscapes*

#### **2007 Southern California Conference for Undergraduate Research**

California State University Los Angeles, Los Angeles, CA

- Oral presentation by C. Prager  
*Variability in extrafloral nectary structure, herbivory, and ant attendance in the exotic plant Ricinus communis in Southern California and Costa Rica*

#### **2007 Tropical Biology Research Experience for Undergraduates**

Puerto de Sarapiquí, Heredia, Costa Rica.

- Oral presentation by C. Prager  
*Plant architecture and habitat variation of the exotic ant-plant Ricinus communis*

#### **2006 Southern California Conference for Undergraduate Research**

Occidental College, Eagle Rock, CA

- Poster by V. Ruiz and J. Statwick  
*Reforestation with Native Tree Species in the Lowland Tropical Rainforests of Costa Rica*

## SERVICE

---

### University-level

- Presenter, Communications and Technology Committee, College of Communication and Fine Arts 2017
- Presenter, Agape Late Speaker Series, Mission and Ministry 2016
- Presenter, Hands-on Technology Workshop, Technology-Enhanced Learning 2016
- Research Associate Search Committee, Office of Intercultural Affairs 2016
- Chapter President, Sigma Xi Scientific Research Society 2015-Present
- Invited Faculty, Joint Meeting of the Board of Regents and Board of Trustees 2015
- Representative, Office of Mission and Ministry's Ignatian Colleagues Program on International Immersion Experience: Women and Men For and With Others (El Salvador) 2015
- Advisory Council Member, Academic Community of Excellence (ACE) Program 2014 - Present
- AB-540 Mentor, Financial Aid Program for Undocumented Students 2014 - Present
- Board of Directors, Southern California Conferences on Undergraduate Research (SCCUR) 2014 - 2017
- Advisory Committee, Office of Undergraduate Research 2013 - 2014
- Science Selection Committee Member, Undergraduate Research Symposium 2013 - 2014
- Representative, Western Conversations in Jesuit Higher Education forum on "Sustainability and Environmental Justice on Jesuit Campuses" 2010
- Session Chair, Undergraduate Research Symposium 2009

### College-level

- Faculty Affiliate, Environmental Science Program 2016 - Present
- Technology Enhanced Classroom Advisory Group Member; new Life Sciences Building 2015 - Present
- Innovative Classroom Center Advisory Committee Member; new Life Sciences Building 2013 - 2014
- Graduate Student Advisory Committee Member, Mridul Oli, M.S. Environmental Science 2013 - 2014
- B.S. Environmental Science Task Force Member 2010 - 2015
- Life Science Math *ad hoc* committee Member 2011

### Department-level

- Faculty Advisor, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) 2016 - Present
- Scribe, Departmental Rank and Tenure Review 2014
- Greenhouse Committee Chair 2014 - 2015
- Presenter, Arroyo Green Team, Audubon Center at Debs Park 2013
- Faculty Search Committee Member 2011
- Faculty Advisor, Epsilon Delta chapter of the Beta Beta Beta National Biological Honor Society 2009 - 2016
- Presenter, Mentoring Day Science Workshop, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) 2008
- Greenhouse Committee Member 2008 - 2014

### Professional

- Senior Co-Editor of the journal *Mesoamericana*, Mesoamerican Society for Biology and Conservation 2015 - Present
- Referee for the journal *BIOS*, and the *Journal of Ecology and the Natural Environment* 2015
- Regional Reviewer, Core U.S. Fulbright Scholar Program, Bureau of Educational and Cultural Affairs, U.S. Department of State 2014
- Referee for the *International Journal of Biometeorology*, the *Journal of Agriculture and Ecology Research International*, *Journal of Ecology and the Natural Environment*, and the *International Journal of Plant & Soil Science* 2014



- Reviewer, Grant Panel - Graduate Research Fellowship Program (GRFP), National Science Foundation (NSF) 2014
- Referee for the journal *Natural Product Research* 2013
- Editorial Board Member of the journal *Bioma* (El Salvador) 2013 - Present
- Member, Short-term Experts/ Support Services Roster, United Nations Educational, Scientific and Cultural Organization (UNESCO) 2012 - 2014
- Reviewer, Grant Panel - Transforming Undergraduate Education in STEM (TUES), National Science Foundation (NSF) 2012
- Referee for the *Journal of African Biotechnology*, and the journal *BIOS* 2012
- Reviewer, Licentiate Theses, Escuela de Biología, Universidad de El Salvador 2012
- Referee for the journal *BIOS* 2010
- Referee for the journal *Environmental Entomology* 2007
- Referee for the *Organization for Tropical Studies* (South Africa) 2004 - 2005
- Referee for the *Organization for Tropical Studies* (Costa Rica) 2003 - 2004
- Referee for the *Organization for Tropical Studies* (Costa Rica) 2001
- Referee for the *Organization for Tropical Studies* (Costa Rica) 1997 - 1999

### Community Service

- Presenter, Insect workshop, Roosevelt Elementary School, Santa Monica, California 2015
- Presenter, Tropical biology talk, Roosevelt Elementary School, Santa Monica, California 2015
- Organizational Committee Member, First National Symposium on Climate Change, University of El Salvador, El Salvador. 2014
- Presenter, Microorganisms workshop, Roosevelt Elementary School, Santa Monica, California 2013
- Presenter, Bat ecology talk, Roosevelt Elementary School, Santa Monica, California 2013
- Presenter, Bat ecology talk, American School of San Salvador, San Salvador, El Salvador 2012
- Presenter, Bat ecology talk, Saint Monica Elementary School, Santa Monica, California 2011
- Advisor, “La Ciencia a tu Alcance” outreach program, Universidad de Loyola del Pacífico, Acapulco (Guerrero), México. 2010
- Presenter, Bat ecology talk, Saint Monica Elementary School, Santa Monica, California 2009
- Mentor, “La Ciencia a tu Alcance” outreach program, Universidad de Loyola del Pacífico, Acapulco (Guerrero), México. 2009
- Faculty Participant, Diversity Scorecard Project, Occidental College 2006
- Outreach Task Team Member, Organization for Tropical Studies 2006
- Presenter, Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR UP), Occidental College. 2006
- International Culture Team Member, University of Arkansas 2002 - 2005
- Latin Student Association Member, University of Arkansas 1999 - 2002

### HONORS, AWARDS, AND FELLOWSHIPS

- Innovative International Project Award**; Office for Research and Sponsored Projects, Loyola Marymount University 2017
- Keynote Speaker**; Congreso de Ingeniería y Arquitectura, *Universidad Centroamericana “José Simeón Cañas”*, La Libertad, El Salvador 2016
- Keynote Speaker**; Dedication of the Innovative Space for Research and Exploration (iNSPIRE) Laboratory, University of Detroit Mercy, Michigan 2016
- Keynote Speaker**; Congreso de Ingeniería y Arquitectura, *Universidad Centroamericana “José Simeón Cañas”*, La Libertad, El Salvador 2015
- Keynote Speaker**; Primer Congreso Nacional de Cambio Climático, San Salvador, El Salvador 2014
- Honorary Diploma of Recognition**; Institute for Science, Technology and Innovation, *Universidad Francisco Gavidia*, El Salvador 2014
- Honorary Diploma of Recognition**; College of Natural Sciences and Mathematics, *Universidad de El Salvador*, El Salvador 2013
- Certificate of Special Congressional Recognition**; Henry A. Waxman, Representative of California’s 33rd Congressional District, U.S. House of Representatives 2013

<b>Professor of the Year Nominee;</b> Student Leadership & Development, and the Associated Students of Loyola Marymount University	2010
<b>The Chancellor's List;</b> University of Arkansas	2005
<b>Outstanding Student Honor Society;</b> University of Arkansas	2004
<b>Phi Beta Delta Honor Society for International Scholars;</b> University of Arkansas	2003
<b>Benjamin Franklin Lever Tuition Fellowship;</b> University of Arkansas	2001 - 2003