PhD Student in Entomology – Carlos Andrés Rosas Sánchez

Profile

My Bachelor's degree was obtained in 2014 from Facultad de Ciencias, Universidad Nacional Autónoma de México (UNAM), with a major in Biology. My main interests in Entomology are the taxonomy and systematics of Hemiptera: Heteroptera.

I have experience in other fields such as Immunoparasitology (Study of the oral infection by *Trypanosoma cruzi*) and Ecology (Symbiotic relationships among aquatic insects and protozoa).

Some of the skills and abilities that I have are: working well in team situations, having good writing and analytical skills, having a strong interest in scientific outreach, and experience doing field work.

Education

UNIVERSITY	University of California, Riverside (UCR)				
YEAR	Fall 2016 - Present				
DEGREE	PhD in Entomology				
THESIS TOPIC	"Systematics of the subfamily Mirinae (Heteroptera: Miridae)".				
ADVISOR	Under the direction of Dr. Christiane Weirauch.				
RESEARCH	 Taxonomic revision of one or several genera, with emphasis on the Neotropical fauna. Phylogeny of the subfamily Mirinae based on the analysis of combined morphological and molecular datasets. Study of the evolution of host associations across Mirinae, with emphasis on important genera which are specific plant pests. 				
FELLOWSHIP	UC Mexus – Consejo Nacional de Ciencia y Tecnología (CONACyT). * * translated as National Science and Technology Council.				

UNIVERSITY	Universidad Nacional Autónoma de México (UNAM)				
YEAR	2014				
DEGREE	Bachelor in Biology.				
THESIS TOPIC	"Revision of the genus <i>Largus</i> (Hahn, 1831) (Hemiptera: Heteroptera: Largidae) for Mexico".				
ADVISOR	Under the direction of Dr. Harry Urad Brailovsky Alperowitz.				
ACTIVITIES	 Sorting and identifying species. Elaboration of biogeographic maps. Writing a taxonomic key for identifying Mexican <i>Largus</i> species with specimen and genitalia photographs. 				

Work Experience

POSITION	Research Assistant.			
YEARS	2014 - 2016			
PLACE	Universidad Nacional Autónoma de México (UNAM). - Instituto de Biología (IBUNAM). - Colección Nacional de Insectos (CNIN).			
ACTIVITIES	 Mounting, sorting and identifying entomological specimens (specifically working with Hemiptera). Aid in writing and organizing information for scientific papers. Publication of scientific article: "Revision of the genus <i>Largus</i> (Hahn, 1831) (Hemiptera: Heteroptera: Largidae) for Mexico" Revista Mexicana de Biodiversidad, IBUNAM. 			
ADVISOR	Under the direction of Dr. Harry Urad Brailovsky Alperowitz.			
SCHOLARSHIP	Obtained from Consejo Nacional de Ciencia y Tecnología (CONACyT). * * translated as National Science and Technology Council.			

POSITION	Social Service Intern.			
YEAR	2013			
PLACE	Universidad Nacional Autónoma de México (UNAM). - Instituto de Biología (IBUNAM). - Colección Nacional de Insectos (CNIN).			
ACTIVITIES	 Mounting, sorting and identifying entomological specimens. Maintenance of the insect collection. Assistance in ongoing projects. 			
ADVISOR	Under the guidance of M. S., Cristina Mayorga Martínez.			
SCHOLARSHIP	Obtained from Secretaría de Educación Pública (SEP). * * translated as Ministry of Education.			

POSITION	Intern.				
YEAR	2011				
PROJECT	"Ciliated protozoa associated with freshwater organisms of four endorreic basins located at the Volcanic Transmexican Belt".				
PLACE	Universidad Nacional Autónoma de México (UNAM). - Facultad de Ciencias. - Protozoology Lab.				
ACTIVITIES	 Field work at several localities in: Puebla, Estado de México, Jalisco, Michoacán and Morelos. Sorting and dissecting entomological specimens. Identification of protozoa and aquatic insects. 				
ADVISOR	Under the direction of Dr. Rosaura Mayen Estrada.				
SCHOLARSHIP	Obtained from Facultad de Ciencias, UNAM. - Grant by PAPIIT (Programa de Apoyo a Proyectos de Investigación e Innovación Tecnológica). * *translated as Program to support Research Projects and Technological Innovation.				

POSITION	Intern.			
YEAR	2010			
PROJECT	"Characterization of the presence of <i>Trypanosoma cruzi</i> in digestive system studied in mice model. Study of the cellular and humoral immune response".			
PLACE	Universidad Nacional Autónoma de México (UNAM). - Instituto de Investigaciones Biomédicas (IIB). - Immunology Lab.			
ACTIVITIES	 Experimental model development. Training in vivarium for working with security protocols handling virulent strains. Elaboration of immunological and histological tests to determine infection rates. 			
ADVISOR	Under the direction of Dr. Bertha Espinoza Gutiérrez.			

Publications

ROSAS C. A. & BRAILOVSKY H. 2015. Revision of the genus *Largus* (Hahn, 1831) (Hemiptera: Heteroptera: Largidae) for Mexico. Revista Mexicana de Biodiversidad.

Scientific Meetings and Outreach

	Personalized Attention and Tutoring Program.		
Year	2015		
Place	Universidad Autónoma Metropolitana (UAM).		
Activities	 Speaker: "Arthropod Biology: insects, bugs and stuff". 		

	Humanities and Sciences Festival.				
Year	2015, 2014 & 2013				
Place	Universum Museum, UNAM.				
Activities	 Exhibitor - representing the CNIN, IBUNAM. Explaining insect diversity, ecology, importance, life cycles and overall information to students, families and other attendants. 				

85th IBUNAM Anniversary.

Year	2014				
Place	Palacio de la Autonomía, UNAM.				
Activities	 Speaker - conference: "Insect Biodiversity". Explaining insect diversity, ecology, importance, life cycles and overall information to students, families and other attendants. 				

	11 th Cave Week Symposium.			
Year	2011			
Place	Universidad Nacional Autónoma de México (UNAM). - Facultad de Ciencias, Unidad Multidisciplinaria de Docencia e Investigación Juriquilla, Querétaro.			
Activities	 Speaker - conference: "Insect communities compared at two different Mexican caves in Veracruz and Guerrero". Member of the organizing committee. 1st place winner in cave photography contest. 			

English tests

2003	University of Cambridge. Entry Level Certificate in English (ESOL) - Entry 3. Pass with Merit in the Preliminary English Test. Council of Europe Level B1.			
2004	University of Cambridge. Level 1 Certificate in English (ESOL) Grade B in the First Certificate in English. Council of Europe Level B2.			
2005	Anglia Training Centre. Certificate in the Teaching of English as a Foreign Language (CTEFL).			
2006	ILAC, International Language Academy of Canada. Certificate in recognition of proficiency at the Advanced III Level (3-week course).			
2014	Educational Testing Service - Toefl iBT - Overall Score 107/120.			
	Reading 29	Listening 28	Speaking 24	Writing 26
2015	GRE (Graduate Record Examination)			
	Verbal Reasoning Quantitative Reaso Analytical Writing	ning	Scaled Score 155 Scaled Score 144 Score 3.5	% Below 67 % Below 18 % Below 38

Software

Office 97 - 2010.Expertise 90%(Word, Excel, Powerpoint, Outlook, OneDrive).

DIVA Gis. Expertise 80% Software for elaborating biogeographic distribution maps.

Specimen Databasing.Expertise 80%Software for database – UNIBIO, IBUNAM.

Leica-LAS Multifocus PhotographyExpertise 90%Software to capture stack of images at different focus positions.