

# Carlos E. Santibáñez López

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**WEB:** <https://arachnomics.org>

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## Current positions

**Assistant Professor** Western Connecticut State University (WCSU)  
[2021- present]

## Previous positions

**NSF Postdoctoral Fellow** Department of Biology, Eastern Connecticut State University (ECSU)  
[2018–2020]

**NSF Postdoctoral Fellow** Department of Integrative Biology, University of Wisconsin-Madison (UWM)  
[2017–2018]

**CONACYT Postdoctoral Fellow** Department of Zoology, University of Wisconsin-Madison (UWM)  
[2016–2018]

**CONACYT Postdoctoral Fellow** Department of Biomolecular Medicine at the Instituto de Biotecnología,  
Universidad Nacional Autónoma de México (UNAM)  
[2014–2016]

**Curator** Institutional Arachnology collection at the Instituto Tecnológico del Valle de  
Oaxaca, Mexico  
[2005–2006]

## Education

**Ph.D. in Biological Sciences** Instituto de Biología, Universidad Nacional Autónoma de México (UNAM)  
[2013] (summa cum laude)

**M.S. in Systematics** Instituto de Biología, Universidad Nacional Autónoma de México (UNAM),  
[2009] (summa cum laude)

**B.S. in Biology** Instituto Tecnológico del Valle de Oaxaca, Mexico (summa cum laude)  
[2006]

## Peer-reviewed publications

+ – denotes undergraduate  
Student

41 total, 26 as first author

**Santibáñez-López, C.E.**, Farleigh, K., Cushing, P.E., Graham, M.R. (In press).  
Restriction enzyme optimization for RADseq with camel spiders (Arachnida:  
Solifugae). *Journal of Arachnology*.

\*Ballesteros, J.A., \*Setton, E.V.W., \***Santibáñez-López, C.E.**, Arango, C.P.,  
Brenneis, G., Brix, S., Cano-Sánchez, E., Dandouch, M., Dilly, G.F., Eleaume, M.P.,  
Gainett, G., Gallut, C., McAtee, S., McIntyre, L., Moran, A.L., Moran, R., López-

González, P.J., Scholtz, G., Williamson, C., Woods, H., Wheeler, W.C., Sharma, P.P. (In press). Phylogenomic resolution of sea spider diversification through integration of multiple data classes. *Molecular Biology and Evolution* (\* equal author contribution) Open Access

*Featured on the Science Magazine*

Graham, M.R., **Santibáñez-López, C.E.**, Derkarabetian, S., Hendrixson, B.E. (2020). Pleistocene persistence and expansion in tarantulas on the Colorado Plateau and the effects of missing data on phylogeographical inferences from RADSeq. *Molecular Ecology* 29: 3684-3701.

Ureta, C., González, E.J., +Ramírez-Barrón, M., Contreras-Félix, G.A., **Santibáñez-López, C.E.** (2020). Climate change will have an important impact on scorpion's fauna in its most diverse country, Mexico. *Perspectives in Ecology and Conservation* 18:116-123.

+Nolan, E.D., **Santibáñez-López, C.E.**, Sharma, P.P. (2020) Developmental gene expression supports the monophyly of Arachnospulmonata and refutes a single colonization of land in the evolutionary history of Chelicerata. *Developmental genes and Evolution* 230: 137-153.

**Santibáñez-López, C.E.**, Ojanguren-Affilastro, A., Sharma P.P. (2020). Another one bites the dust: Taxonomic sampling of a key genus in phylogenomic datasets reveals more non-monophyletic groups in traditional scorpion classification. *Invertebrate Systematics* 34: 133-143.

Ballesteros, J.A., **Santibáñez-López, C.E.**, Kovác, L., Gavish-Regev, E., Sharma, P.P. (2019). Ordered phylogenomic subsampling enables diagnosis of systematic errors in the placement of the enigmatic, long-branch arachnid order Palpigradi. *Proceedings of the Royal Society B*. 286:20192426

*equal author contribution*

**Santibáñez-López, C.E.**, Graham, M.R., Sharma, P.P., Ortiz, E., Possani, L.D. (2019). Evolutionary conservation and selective pressures in hadrurid scorpion toxins. *Toxins* 11:637

*Featured on the cover journal*

Aharon, S., Ballesteros, J.A., Crawford, A.R., Gainett, G., Fiske, K., Langford, B., **Santibáñez-López, C.E.**, Ya'aran, S., Gavish-Regev, E., Sharma, P.P. (2019). The anatomy of an unstable node: A Levantine relict precipitates phylogenomic dissolution of higher-level relationships of the armored harvestmen (Arachnida: Opiliones: Laniatores). *Invertebrate Systematics* 33:697-717

*Featured on the cover journal*

**Santibáñez-López, C.E.**, González-Santillán, E., Monod, L., Sharma, P.P. (2019). Phylogenomics facilitates stable scorpion systematics: Reassessing the relationships of Vaejoidea and a new high-level classification of Scorpiones (Arachnida). *Molecular Phylogenetics and Evolution* 135:22-30

Bolaños, L.M., Rosenblueth, M., Migueles-Lozano, A., Manrique de Lara, A., Gril-Aguillón, C., Estrada, V., González-Serrano, F., **Santibáñez-López, C.E.**, García-Santibáñez, T., Martínez-Romero, E. (2019) Cophylogenetic analysis suggests cospeciation between the Scorpion Mycoplasma Clade symbionts and their hosts. *PLoS ONE* 14(1): e0209588

**Santibáñez-López, C.E.**, Kriebel R., Ballesteros, J.A., Rush, N., Witter, Z., Williams, J., Jaines, D., Sharma, P.P. (2018) Integration of phylogenomics and molecular modeling reveals lineage-specific diversification of toxins in scorpions. *PeerJ* 6: e5902

*Featured in Chemistry World by The Royal Society of Chemistry*

Romero-Gutiérrez, T., **Santibáñez-López, C.E.**, Jiménez-Vargas, J.M., Batista, C.V.F., Ortiz, E., Possani, L.D. (2018). Exploring the diversity of venom components of *Serradigitus gertschi* (Scorpiones: Vaejoidea) through proteomic and transcriptomic analyses. *Toxins* 10: 359

Cid-Urbe, I., **Santibáñez-López, C.E.**, Batista, C.V.F., Ortiz, E., Possani, L.D. (2018). The diversity of venom components of the scorpion species *Paravaejovis schwenkmeyeri* (Scorpiones: Vaejoidea) revealed by transcriptome and proteome analyses. *Toxicon* 151: 47-62

*equal author contribution*

**Santibáñez-López, C.E.**, Ontano, A.Z, Harvey, M.S., Sharma, P.P. (2017). Transcriptomic analysis of pseudoscorpion venom reveals a unique cocktail dominated by enzymes and protease inhibitors. *Toxins* 10: 207

Riaño-Umbarila, L., Rodríguez-Rodríguez, E.R., **Santibáñez-López, C.E.**, Güereca, L., Uribe-Romero, S.J., Gómez-Ramírez, I.V., Cárcamo-Noriega, E.N., Possani, L.D., Becerril, B. (2017). Updating knowledge on new medically important scorpion species in Mexico. *Toxicon* 138: 130-137

**Santibáñez-López, C.E.**, Cid-Urbe, I., Zamudio-Zuñiga, F., Batista, C.V.F., Ortiz, E., Possani, L.D. (2017) Venom proteomic and venom gland transcriptomic analyses of the scorpion *Megacormus gertschi* Díaz-Najera, 1966 (Scorpiones: Euscorpiidae: Megacorminae). *Toxicon* 133: 95-109

*equal author contribution*

**Santibáñez-López, C.E.**, González-Santillán, E. (2017). A new species of *Diplocentrus* (Scorpiones: Diplocentridae) with punctuate pedipalp surface, a

diagnostic character within the "*mexicanus*" group. *Comptes Rendus Biologies* 340: 279-286

**Santibáñez-López, C.E.**, Kriebel, R., Sharma, P.P. (2017). *eadem figura manet*. Measuring morphological convergence in diplocentrid scorpions (Arachnida: Scorpiones: Diplocentridae) under a multilocus phylogenetic framework. *Invertebrate Systematics* 31: 233-248

*equal author contribution, featured on the journal cover*

Monjaraz-Ruedas, R., Francke, O.F., **Santibáñez-López, C.E.** (2017). The morphological phylogeny of the family Protoschizomidae revisited (Arachnida, Schizomida): setae characters, fossil and paraphyletic genera. *Journal of Arachnology* 45: 99-111

**Santibáñez-López, C.E.**, Cid-Urbe, I., Batista, C.V.F., Ortiz, E., Possani, L.D. (2016). Venom gland transcriptomic and proteomic analyses of the enigmatic scorpion *Superstitionia donensis* (Scorpiones: Superstitionidae), with insights on the evolution of its venom components. *Toxins* 8: 367

Monjaraz-Ruedas, R., Cruz-López, J.A., Francke, O.F., **Santibáñez-López, C.E.** (2016). Annuli and setal patterns in the flagellum of female micro-whipscorpions (Arachnida: Schizomida): Hypotheses of homology across an Order. *Zoologischer Anzeiger* 263: 118-134

Hernández-Vargas, M.J., **Santibáñez-López, C.E.**, Corzo, G. (2016). An insight into the Triabin protein family of American Hematophagous Reduviids: Functional, Structural and Phylogenetic analysis. *Toxins* 8: 44

**Santibáñez-López, C.E.**, Francke, O.F., Ureta, C., Possani, L.D. (2016). Scorpions from Mexico: From species diversity to venom complexity. *Toxins* 8: 1

+Sagastume-Espinoza, K., Longhorn, S. **Santibáñez-López, C.E.** (2015). A new scorpion species of genus *Diplocentrus* Peters, 1861 (Scorpiones: Diplocentridae) endemic from Islas de la Bahía, Honduras. *Comptes Rendus Biologies* 338: 502-510

Francke, O.F., Teruel, R. **Santibáñez-López, C.E.** (2014). A new genus and a new species of scorpion (Scorpiones: Buthidae) from Southeastern Mexico. *Journal of Arachnology* 42: 220-232

**Santibáñez-López, C.E.**, Francke, O.F. Prendini, L. (2014). Shinning a light into the world' s deepest caves: Phylogenetic systematics of the troglomorphic scorpion genus *Alacran* Francke, 1982 (Typhlochactidae: Alacraninae). *Invertebrate Systematics* 28: 643-664

**Santibáñez-López, C.E.**, Francke, O.F. Prendini, L. (2014). *Kolotl* gen. n. (Scorpiones: Diplocentridae) a new scorpion genus from Mexico. ***American Museum Novitates*** 3815: 1-28

**Santibáñez-López, C.E.**, Francke, O.F., Prendini, L. (2014). Phylogeny of the North American scorpion genus *Diplocentrus* Peters, 1861 (Scorpiones: Diplocentridae) based on morphology, nuclear and mitochondrial DNA. ***Arthropod Systematics and Phylogeny*** 72: 257-279

*featured on the journal cover*

**Santibáñez-López, C.E.** (2014). A new species of the genus *Diplocentrus* Peters, 1861 (Scorpiones: Diplocentridae) from Oaxaca, Mexico. ***Zookeys*** 412: 103-116

**Santibáñez-López, C.E.**, Contreras-Félix, G. (2013). Two new species of *Centruroides* Marx, 1860 (Scorpiones: Buthidae) from Oaxaca, Mexico. ***Zootaxa*** 3734: 130-140

**Santibáñez-López, C.E.**, Francke, O.F., +Ortega-Gutierrez, A. (2013). Variation of the spiniform setae pattern on the basitarsi of *Diplocentrus tehuacanus* (Scorpiones, Diplocentridae). New characters to diagnose species within the genus. ***Journal of Arachnology*** 41: 319-326

**Santibáñez-López, C.E.**, Francke, O.F., Prendini, L. (2013). Systematics of the "keyserlingii" group of the genus *Diplocentrus* Peters, 1861 (Scorpiones: Diplocentridae). ***American Museum Novitates*** 3777: 1-47

**Santibáñez-López, C.E.**, Francke, O.F. (2013). Redescription of *Diplocentrus zacatecanus* (Scorpiones: Diplocentridae) and limitations of the hemispermatophore as a diagnostic trait for genus *Diplocentrus*. ***Journal of Arachnology*** 41: 1-10

+Contreras-Félix, G., **Santibáñez-López, C.E.** (2011). *Diplocentrus bicolor* sp. n. (Scorpiones: Diplocentridae), a new species from Jalisco, Mexico. ***Zootaxa*** 2992: 61-68

**Santibáñez-López, C.E.**, Francke, O.F., †Córdova-Athanasiadis, M. (2011). The genus *Diplocentrus* Peters (Scorpiones: Diplocentridae) in Morelos, Mexico. ***Revista Ibérica de Aracnología*** 19: 3-13

**Santibáñez-López, C.E.**, Francke, O.F. (2010). New and poorly known species of the "mexicanus" group of the genus *Vaejovis* Koch, 1836 (Scorpiones: Vaejovidae) from Oaxaca, Mexico. ***Journal of Arachnology*** 38: 555-571

**Santibáñez-López, C.E.**, Sissom, W.D. (2010). New species of the *Vaejovis eusthenura* group in Oaxaca, Mexico (Scorpiones: Vaejovidae). ***Zootaxa*** 2493: 49-58

**Santibáñez-López, C.E.,** Ponce-Saavedra, J. (2009). A new species of *Centruroides* (Scorpiones: Buthidae) from the northern mountain range of Oaxaca, Mexico. *Revista Mexicana de Biodiversidad* 80:321-331

**Santibáñez-López, C.E.,** Francke, O.F. (2008). A new species of *Diplocentrus* (Arachnida: Scorpiones) from Oaxaca, Mexico. *Zootaxa* 1742: 53-60

**Book chapters** Ponce, J., Valdez-Mondragón, A., **Santibáñez-López C.E.,** Cruz López, J.A. 2019. Los arácnidos. In: CONABIO (ed.), La Biodiversidad de Michoacán. Estudio de estado 2 Vol. II. CONABIO

**Santibáñez-López, C.E.,** Cruz-López, J.A. 2019. Otros arácnidos: ambliopígididos, opiliones, pseudoescorpiones y alacranes. In: CONABIO (ed.), La Biodiversidad de Michoacán. Estudio de estado 2. Vol. II. CONABIO

**Manuscripts in review/revision** Ontano, A., Gainett, G., Shlomi, A., Ballesteros, J.A., Benavides, L., Corbett, K., Gavish-Regev, E., Harvey, M., Monsma, S., **Santibáñez-López, C.E.,** Setton, E., Zehms, J., Zeh, J., Zeh, D., Sharma, P.P. (Submitted). Taxonomic sampling and rare genomic changes overcome long-branch attraction in the phylogenetic placement of pseudoscorpions. *bioRxiv* 2020.11.18.389098

**Santibáñez-López, C.E.,** Aharon, S., Ballesteros, J.A., Gainett, G., Baker, C.M., González-Santillán, E., Harvey, M.S., Hassan M.K., Abu-Almaaty, A.H., Aldeyarbi, S.M., Monod, L., Ojanguren-Affilastro, A., Raven, R.J., Pinto-da-Rocha, R., Zvik, Y., Gavish-Regev, E., Sharma, P.P. (Submitted). Phylogenomics of scorpions reveal a co-diversification of scorpion mammalian predators and mammal-specific sodium channel toxins. *bioRxiv* 2020.11.06.372045

**Manuscripts in preparation** **Santibáñez-López, C.E.,** Cushing P.E., Graham, M.R. Miocene diversification and signatures of introgression in the large, arid-adapted camel spiders of genus *Eremocosta* (Solifugae: Eremobatidae) (in preparation for *Systematic Biology*).  
Graham, M.R., **Santibáñez-López, C.E.,** Jaeger, J.R. Postglacial range expansion in scorpions revealed by phylogeographical inference (in preparation for *Journal of Biogeography*).  
**Santibáñez-López, C.E.,** Nolan, E.D., Setton, E.V.W., Sharma, P.P. Evolutionary origin of scorpion pectines (in preparation for *Current Biology*).

## **Fellowships and honors**

- [2018–present] NSF postdoctoral fellowship
- [2017–2018] NSF postdoctoral fellowship
- [2016–2018] Consejo Nacional para la Ciencia y Tecnología (CONACYT-Mexico) Award for Postdoctoral Research
- [2014–2016] CONACYT and Secretaría de Educación Pública (SEP-Mexico) grant for Basic Molecular Research
- [2014–present] Member of the Sistema Nacional de Investigadores (CONACYT-Mexico). Level I
- [2013] Theodore Roosevelt Memorial Grant, Richard Gilder Graduate School, American Museum of Natural History
- [2011] Theodore Roosevelt Memorial Grant, Richard Gilder Graduate School, American Museum of Natural History
- [2011] Collection Grant, American Museum of Natural History
- [2009–2013] CONACYT fellowship for graduate studies in Biological Sciences
- [2007–2009] CONACYT fellowship for graduate studies in Systematics

## **Invited seminars**

- [2019] Evolutionary dynamics of scorpion venom components. Department of Biology, University of Massachusetts at Lowell [October 11<sup>th</sup>]
- [2019] Comparative genomics in the study of scorpion venom evolution. Department of Biology, Eastern Connecticut State University [September 13<sup>th</sup>]
- [2018] Scorpion Calcins. Cardiovascular Medicine Division, Department of Medicine, University of Wisconsin-Madison [ August 28<sup>th</sup>]
- [2018] La Biología evolutiva en tiempos de la genómica (in Spanish). Instituto Tecnológico del Valle de Oaxaca, Mexico [September 14<sup>th</sup>]
- [2017] The evolution of the peptide calcin family in scorpion venom through a phylogenomic spyglass. Department of Integrative Biology, University of Wisconsin-Madison [November 2<sup>nd</sup>]
- [2017] Expresión génica en la formación de apéndices en escorpiones (in Spanish). Instituto de Biología, Universidad Nacional Autónoma de México (UNAM), Mexico [August 8<sup>th</sup>]
- [2017] Morphological convergence in scorpions. Biotechnology Center, University of Wisconsin-Madison [February 2<sup>nd</sup>]
- [2017] Distribuciones potenciales de escorpiones (in Spanish). Department of Biomedicine, Instituto de Biotecnología, UNAM [October 30<sup>th</sup>]

## **Presentations at meetings**

**Santibáñez-López, C.E.,** Jaeger, J.R., Graham, M. 2019. Range-wide RADseq and mtDNA data reveal an extraordinary post-glacial range expansion in scorpions from the Mojave and Great Basin deserts (Oral). Annual Meeting for the American Arachnological Society, Washington and Lee University

**Santibáñez-López, C.E.,** Gavish-Regev, E., Ballesteros, J.A., Ontano, A.Z., Kovác, L., Harvey, M., Sharma P.P. 2019. Neglected no longer: Phylotranscriptomics and molecular modeling reveals venom homologs in Pseudoscorpions and Palpigradi. (Poster). 21<sup>st</sup> International Society of Arachnology, Christchurch, New Zealand

**Santibáñez-López, C.E.,** Sharma, P.P. 2019. Using phylogenomics and 3D protein modeling to study the evolution of scorpion venom (Oral). Symposium Arachnid venoms. 21<sup>st</sup> International Society of Arachnology, Christchurch, New Zealand

**Santibáñez-López, C.E.,** Nolan, E.D., Setton, E.V.W., Sharma, P.P. 2019. The evolutionary origin of scorpion pectines (Oral). Symposium Growth, morphogenesis and developmental genetics. 21<sup>st</sup> International Society of Arachnology, Christchurch, New Zealand

**Santibáñez-López, C.E.,** Kriebel, R., Ballesteros, J.A., Sharma, P.P. 2018. Integration of phylogenomics and 3D protein modeling reveal phylogenetic inertia in ryanodine receptor ligand peptides of scorpion venom (Poster). Annual Meeting for the Society for Molecular Biology and Evolution, Yokohama, Japan

**Santibáñez-López, C.E.** 2018. Gene expression in the scorpion *Centruroides sculpturatus* appendages and the evolutionary origin of pectines (Oral). Annual meeting for the Society for Integrative and Comparative Biology, San Francisco, CA

**Santibáñez-López, C.E.,** Kriebel, R., Ballesteros, J.A., Sharma, P.P. 2018. Evolution of three-dimensional structure of the calcin family peptides in the scorpion venom (Poster). Annual meeting for the Society for Integrative and Comparative Biology, San Francisco, CA

**Santibáñez-López, C.E.** 2016. Filling pieces in the Scorpion venom puzzle (Oral). Symposium Biology of Scorpions. 20<sup>th</sup> International Congress of Arachnology, Golden, CO

+Monjaraz-Ruedas, R., Francke, O.F., **Santibáñez-López, C.E.** 2016. Fossil and characters: the morphological phylogeny of the family Protoschizomidae (Arachnida: Schizomida) (Oral). 20<sup>th</sup> International Congress of Arachnology, Golden, CO

+Monjaraz-Ruedas, R., Francke, O.F., Cruz-López, J.A., **Santibáñez-López, C.E.** 2016. Tails or heads? Setae pattern and annuli in the female flagellum of micro-whip scorpions (Arachnida: Schizomida) (Poster). 20<sup>th</sup> International Congress of Arachnology, Golden, CO



**Santibáñez-López, C.E.**, Francke, O.F., Prendini, L. 2014. Análisis filogenético del género *Diplocentrus* Peters, 1861 (Scorpiones: Diplocentridae) usando datos moleculares y morfológicos (Oral - Spanish). 4<sup>th</sup> Latin-American Congress of Arachnology, Morelia, Mexico

**Santibáñez-López, C.E.**, Francke, O.F., Prendini, L. 2014. Avances en la filogenia del género *Alacran*, Francke, 1982 (Scorpiones: Typhlochactidae) (Poster). 4<sup>th</sup> Latin-American Congress of Arachnology, Morelia, Mexico

**Santibáñez-López, C.E.**, Francke, O.F., Prendini, L. 2011. Avances en la sistemática del género *Diplocentrus* Peters, 1861 (Scorpiones: Diplocentridae) (Oral – Spanish). 3<sup>rd</sup> Latin-American Congress of Arachnology, Quindío, Colombia

## Teaching experience

### Instructor

[Spring 2020] Advanced Systematic Biology (BIO-545) WCSU

### Guest Lecturer

[2019] Zoology, Eastern Connecticut State University

[2017] Zoology 300. University of Wisconsin-Madison

[2009] Systematics. Instituto de Biología, UNAM

### Workshops

[Fall 2018] Managing transcriptomes. Sharma Lab, Department of Integrative Biology, UWM

[Spring 2016] Systematics in the Bioinformatic Era (in Spanish). Instituto Tecnológico del Valle de Oaxaca, Mexico

Club de Ciencias CONACYT- Harvard. Scorpion Diversity in Mexico: From genes through Species to Ecosystems (English and Spanish). Facultad de Ciencias.

[Summer 2016] Universidad Autónoma de Baja California, Mexico

Neartic Scorpiones (in Spanish). 4<sup>th</sup> Latin-American Congress of Arachnology,

[Summer 2014] Morelia, Mexico

## Mentoring experience

### Undergraduate Mentees

**Alexsis Powell** (ECSU)

RADseq library preparation, molecular analyses

**María Rodríguez** (DACA student, ECSU)

DNA extraction and molecular analyses

**Haley Crimson** (ECSU)

Bioinformatic toolkits for phylogenetic analysis

**Emily Setton** (UWM)

Bioinformatic toolkits for phylogenetic analysis

**Marisela Perzabal** (Universidad Autónoma de Baja California)

Phylogenetics

**Daniel José-Zacatula** (Instituto Tecnológico del Valle de Oaxaca, Mexico)

Undergraduate thesis. Advisor

**Gerardo Contreras-Félix** (Universidad Autónoma de Guadalajara, Mexico)

Undergraduate thesis. Co-Advisor

### Graduate Mentees

**Jesús Cruz López, Gerardo Contreras-Félix, Rodrigo Monjaraz-Ruedas**

(UNAM, Mexico)

Bioinformatic toolkits for phylogenetic analysis

**Richard R. Jones** (University of Colorado-Denver)

Bioinformatics

**Emily Setton, Andrew Ontano, Guilherme Gainett** (UWM)

Bioinformatic toolkits for phylogenomic, transcriptomic and molecular analyses

**María José Hernández, Jimena I. Cid-Uribe** (UNAM, Mexico)

Bioinformatic toolkits for phylogenetic analysis

**Luis Manuel Bolaños Avellaneda** (UNAM)

Ph.D. evaluating committee

### Service to the academic community

#### Referee service

[2020] The Canadian Entomologist

[2018–present] Molecules - MDPI

[2016–present] Toxins - MDPI

[2013- 2016] AMNH Publication series

[2017–2018] Cladistics

[2014–present] Invertebrate Systematics

[2012–present] Journal of Arachnology

[2010–2015] Revista Mexicana de Biodiversidad

[2017–present] Zoological Journal of the Linnean Society

[2013–2016] Zookeys

[2009–2016] Zootaxa

### Outreach to the public

[2017] Research Outreach with Children for Darwin Day. Biotechnology Center. UWM

[2013] Research Outreach: Hablemos de ocho patas (In Spanish). Café de las Ciencias, Oaxaca. Mexico

- [2011] Research Outreach: La fauna que habita en el Jardín Botánico IB-UNAM (In Spanish), Mexico City, Mexico
- [2011] Research Outreach: Los escorpiones en México: diversidad y mitos. Jardín Etnobotánico de Oaxaca, Mexico
- [2008] Papalote Museo del Niño. Scorpions (In Spanish). Children under 10 years old, Mexico City, Mexico

**Science  
communication**

- [2020] Alien Worlds Documentary television series on Netflix, UK.
- [2018] Interview for *Chemistry World Blog*; Royal Society of Chemistry
- [2011–2020] Founder and Director of the Research Blog [www.aracnidos.org](http://www.aracnidos.org)