



## CURRICULUM VITAE

# Sarah C. Crews

### **Post-doctoral Researcher / California Academy of Sciences**

Department of Entomology  
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## Education

### **PhD / University of California, Berkeley**

Berkeley, CA  
December 2008

### **MSc / San Diego State University**

San Diego, CA  
May 2003

### **BS / Virginia Polytechnic Institute and State University**

Blacksburg, VA  
Cum Laude  
May 2001

## Professional Experience

### **Post-doctoral Researcher / California Academy of Sciences**

San Francisco, CA  
September 2015-present

### **Visiting Scholar / University of California, Berkeley**

Berkeley, CA  
Fall 2014–Fall 2015

### **Lecturer / University of California, Berkeley**

Berkeley, CA  
Integrative Biology  
January 2013–May 2013

### **Post-Doctoral Researcher / Western Australian Museum**

Welshpool, Western Australia  
September 2008–August 2009

## Publications

37. **Crews SC, LA Esposito** (2022) A checklist of the ARachnids from the Gulf of Guinea Islands (excluding ticks and mites) in *Biodiversity of the Gulf of Guinea Oceanic Islands*. LMP Ceriaco, RF de Lima, M. Melo, RC Bell, eds. Pp 241-242. Springer, Cham. <https://doi.org/10.1007>
36. **Crews SC, W Galvis, RA Torres, M Gutierrez, J Sarmiento, LA Esposito** (2021) The flattie spiders of the *Selenops isopodus* species group (Araneae: Selenopidae) with a review of *Selenops* records from Colombia. *Zootaxa* 4964(1): 61-82. DOI: 10.11646/zootaxa.4964.1.3
35. **Crews SC, W Galvis, LA Esposito** (2021) Gliding canopy flatties and relatives from the *Selenops banksi* group (Araneae: Selenopidae) *Journal of Natural History* 54(35-36). DOI: 10.1080/00222933.2020.1844914
34. **Marusik Y, CR Haddad, GN Azarkina, F Ballarin, SC Crews** (2020) Festschrift in honour of Wanda Wesolowska on the occasion of her 70th birthday *Zootaxa* 4899(1). DOI: 10.11646/zootaxa.4899.1.1
33. **Cala-Riquelme F, AA Bustamante, SC Crews, B Cutler** (2020) New species of *Peckhamia* Simon, 1900 (Salticidae: Dendryphantini: Synagelina from the Greater Antilles. *Zootaxa* 4899(1): 141-160. DOI: 10.11646/zootaxa.4899.1.7
32. **Kurczewski FE, RC West, SC Crews, NR Jenzen-Jones** (2020) Selenopidae (Arachnida: Araneae), a new host spider family for the spider wasp *Tachypompilus ferrugineus* (Say) (Hymenoptera: Pompilidae: Pomilini). *Insecta Mundi* 0824: 1-6.
31. **Crews SC, LA Esposito** (2020) Towards a synthesis of the Caribbean biogeography of terrestrial arthropods. *BMC Evolutionary Biology* 20, 12 <https://doi.org/10.1186/s12862-019-1576-z>
30. **Crews SC, EL Garcia, JC Spagna, MH Van Dam, LA Esposito** (2019) The life aquatic with spiders: Repeated evolution of aquatic habitat association in Dictynidae and allied taxa *Zoological Journal of the Linnean Society* <https://doi.org/10.1093/zoolinnean/zlz139>
29. **Crews SC, AO Debrot, G van Hoorn, W Galvis, LA Esposito** (2019) The arachnids (Arachnida) of Aruba, Bonaire, and Curaçao *Caribbean Journal of Science* Vol. 49, No. 2-3, 125-140
28. **Zamani A, SC Crews** (2019) Selenopidae of the Middle East *Zoology in the Middle East* DOI: 10.1080/09397140.2018.1540150



27. **Maddison D, K Will, SC Crews, J LaBonte** (2018)  
*Bembidion ambiguum* (Coleoptera: Carabidae) is established in California  
*Biodiversity Data Journal* 6: e30763. <https://doi.org/10.3897/BDJ.6.e30763>
26. **Crews SC** (2018)  
 Two new species of flattie spiders (Araneae: Selenopidae)  
 and descriptions of undescribed males from the Caribbean  
*Zootaxa* 4446(1) DOI 10.11646/zootaxa.4446.1.9
25. **Crews SC, A Thomas, S Hester** (2018)  
 First Record of *Selenops submaculosus* Bryant (Araneae,  
 Selenopidae; a flattie spider) from Louisiana  
*Southeastern Naturalist* 17(1): N10-N14
24. **Zeng Y, SC Crews** (2018)  
 Biomechanics of omnidirectional strikes in flat spiders  
*Journal of Experimental Biology* DOI10.1242/jeb.166512
23. **Crews SC, LA Esposito** (2017)  
 Life on the edge: Terrestrial arthropod communities on salt flats  
*Desert Report Winter*: 6-7
22. **Crews SC, LA Esposito** (2017)  
 Desert salt flats as refugia for terrestrial arthropods  
*Mojave National Preserve Science Newsletter* 4-7
21. **Crews SC** (2017)  
 Selenopidae  
 In: *The Spider Genera of North America*, 2nd Ed.  
 Eds. Darrell Ubick, Pierre Paquin and Paula Cushing
20. **Crews SC** (2017)  
 Homalonychidae  
 In: *The Spider Genera of North America*, 2nd Ed.  
 Eds. Darrell Ubick, Pierre Paquin and Paula Cushing
19. **Crews SC, A Yang** (2016)  
 Notes on the spiders (Arachnida, Araneae) of the Turks  
 and Caicos Islands, British West Indies  
*Caribbean Journal of Science* 135: 83-90
18. **VanderSal-Jensen ND, SC Crews, RG Gillespie** (2016)  
 Is love in the air or at first sight? Mate finding cues used by sympatric  
 male velvet ants (Hymenoptera: Mutillidae)  
*Invertebrate Biology* 1-11



17. **Crews SC, L Baert, A Carmichael** (2016)  
Spider Stowaways: Molecular Data Support the Synonymization of *Selenops galapagoensis* with *Selenops mexicanus* (Araneae: Selenopidae) and Indicate Human-Mediated Introduction to the Galápagos Islands  
*Pacific Science* 70: 223-232
  
16. **Crews SC, LA Esposito, F Cala-Riquelme** (2015)  
The Arachnids of Hellshire Hills Jamaica  
*Caribbean Naturalist Hellshire Symposium Special Volume* (invited)  
28: 1-14.
  
15. **Crews SC, RG Gillespie** (2014)  
Desert salt flats as oases for the spider *Saltonia incerta* Banks (Araneae: Dictynidae)  
*Ecology and Evolution* 4: 3861-3874 DOI:10.1002/ece3.1242
  
14. **Crews SC** (2013)  
Thirteen new species of Karaops (Araneae: Selenopidae) from Western Australia  
*Zootaxa* 3647: 443-469
  
13. **Crews SC** (2011)  
A revision of the spider genus *Selenops* Latreille, 1819 (Arachnida, Araneae; Selenopidae) in North America, Central America and the Caribbean  
*ZooKeys* 105: 1-182 DOI: 10.3897/zookeys.105.724
  
12. **Crews SC, MS Harvey** (2011)  
The spider family Selenopidae (Arachnida, Araneae) in Australasia and the Oriental region  
*ZooKeys* 99: 1-103 DOI: 10.3897/zookeys.99.723
  
11. **Crews SC, RG Gillespie** (2010)  
Molecular systematics of *Selenops* spiders from North and Central America: Implications for Caribbean biogeography  
*Biological Journal of the Linnean Society* 101: 288-322
  
10. **Spagna JC, SC Crews, RG Gillespie** (2010)  
Patterns of habitat affinity and Austral/Holarctic parallelism in Dictynoid spiders (Araneae: Entelegynae)  
*Invertebrate Systematics* 24: 238-257
  
9. **Crews SC, AR Puente-Rolón, E Rutstein, RG Gillespie** (2010)  
A comparison of populations of island and adjacent mainland species of Caribbean *Selenops* (Araneae: Selenopidae) spiders  
*Molecular Phylogenetics and Evolution* 54: 970-983
  
8. **Crews SC** (2009)  
Assessment of rampant genitalic variation in the spider genus *Homalonychus* (Araneae; Homalonychidae)  
*Invertebrate Biology* 128: 107-125
  
7. **Crews SC, LE Stevens** (2009)  
Spiders of Ash Meadows National Wildlife Refuge, Nevada  
*Southwestern Naturalist* 54: 331-340
  
6. **Crews SC, E Wienskoski, RG Gillespie** (2008)  
Life history of the spider *Selenops occultus* Mello-Leitão (Araneae, Selenopidae) from Brazil with notes on the natural history of the genus  
*Journal of Natural History* 42,43: 2747-2761



4. **Crews SC, BD Opell** (2006)  
The features of capture threads and orb-webs produced by unfed *Cyclosa turbinata* (Araneae: Araneidae)  
*Journal of Arachnology* 34: 427-435
3. **Crews SC, MC Hedin** (2006)  
Studies of morphological and molecular phylogenetic divergence in spiders (Araneae: Homalonychus) from the American Southwest including divergence along the Baja Peninsula  
*Molecular Phylogenetics and Evolution* 38: 470-487
2. **Crews SC** (2005)  
SelenopidaeIn: *The Spider Genera of North America*  
Eds. Darrell Ubick, Pierre Paquin and Paula Cushing
1. **Crews SC** (2005)  
Homalonychidae  
In: *The Spider Genera of North America*  
Eds. Darrell Ubick, Pierre Paquin and Paula Cushing

## Media

**Killed By Desk Podcast** "10 Sarah Crews, PhD - Research Scientist - Arachnologist (Bay Area Punk Scene)" 30 Nov 2020. <https://killed-by-desk.simplecast.com/episodes/10-sarah-crews-phd-bay-area-punk-scene-research-scientist-arachnologist-RTXYFiDZ>

**Breakfast Club, Ep. 43** "Flattie Spiders with Dr. Sarah Crews" Oct 2020. <https://youtu.be/3lvEZklFigM>

**National Geographic España** "La desconocida vida acuática de las arañas" Héctor Rodríguez, 25 May 2020. [https://www.nationalgeographic.com.es/naturaleza/desconocida-vida-acuatica-aranas\\_15521](https://www.nationalgeographic.com.es/naturaleza/desconocida-vida-acuatica-aranas_15521)

### Smithsonian Magazine

"Meet the Spider With One of the Fastest Spins on the Planet"

J. Trevino - February 2018 - <https://www.smithsonianmag.com/smart-news/meet-spider-fastest-leg-driven-turn-planet-180968158/>

### National Geographic

"How One of the Fastest Spinning Animals Catches Its Prey"

E. Zachos - February 2018 - <https://youtu.be/HKRL6Y7Oyvw>

### Atlas Obscura

"Found: The Fastest-Spinning Animal in the World"

V. Traverso - February 2018 - <https://www.atlasobscura.com/articles/found-fastest-spinning-spider-flattie>



### **Daily Mail**

*"Blink and you'll miss it: Incredible footage shows how flattie spiders turn to capture their prey in a record one eighth of a second"*

C. Borkhataria, February 2018 - [www.dailymail.co.uk/sciencetech/article-5380513/Footage-shows-flattie-spiders-turn-capture-prey.html](http://www.dailymail.co.uk/sciencetech/article-5380513/Footage-shows-flattie-spiders-turn-capture-prey.html)

### **ABC - Australian Broadcasting Corporation**

*"Could an Australian spider be the world's fastest lunging predator?"*

E. Parke, June 2016 - <http://www.abc.net.au/news/2016-06-19/karaops-spider-could-be-fastest-lunging-predator/7521250>

### **UWI Mona Now**

*"New species named after UWI professor: Selenops wilsoni found in the Hellshire Hills"*

C. Brenton, 1 Sep 2013, v.3, n. 5

### **St. Maarten Daily Herald**

*"New 'flat' spider found on island"*

A. Singh, 21 February 2007

### **Times of the Islands**

*"Archno-filia"*

B. Riggs, Winter 2007

## Grant Funding

National Science Foundation ARTS Grant (2020)

National Geographic Waitt Grant (2015)

American Museum of Natural History Theodore Roosevelt Grant (2007)

California Desert Research Fund (2006)

American Arachnological Society Vince Roth Fund for Systematic Research (2004)

American Museum of Natural History Theodore Roosevelt Grant (2004)

Keene Forest Entomology Award – UC Berkeley (2004)

Sigma Xi GIAR – UC Berkeley Chapter (2004)

American Arachnological Society Vince Roth Fund for Systematic Research (2003)

American Arachnological Society Vince Roth Fund for Systematic Research (2002)

San Diego State University Evolutionary Biology Grant (2001)

## Teaching

### **Instructor / Summer Systematics Institute, CAS**

*NSF REU funded systematics course for undergraduates at the California Academy of Sciences Summer 2019-2021*

Responsible for developing systematics lectures, organizing guest speakers, organizing a career panel, providing instruction for hands-on use of popular phylogenetics programs, one on one assistance to students for presenting their research.

### **Instructor / Islands and Seas non-profit**

*Field course for undergraduates in Scorpion Bay, Baja California Sur, Mexico*

*July 2016*

Responsible for an overview of arthropods and collecting methods, as well



as surveying the arthropods of the area and constructing a collection for the field station.

**Instructor / University of California, Berkeley**

*General Biology Laboratory for biology majors, Bio1B*  
*Spring 2013, Two sections*

Responsible for developing quizzes, introducing the laboratory material, office hours, grading the laboratory portion of the course.

**Co-instructor (with instructor Dr. Nicole VanderSal Jensen) / Marin Academy**

*Biology Minicourse for Freshmen*  
*Fall 2012, One week course*

Responsible for taking students on field trips to learn about California natural history.

**Adjunct Faculty of Sciences / Berkeley City College**

*General Biology Lecture and Laboratory for non-majors, Bio10*  
*Fall 2009-Spring 2012*

Sole instructor responsible for all lecture and lab development, testing, leading students on field trips to learn about California natural history.

**Adjunct Faculty of Sciences / Berkeley City College**

*Biology Discussion, Bio248*  
*Spring 2010, Fall 2010*

Sole instructor, responsible for providing extra guidance and instruction to help those lacking basic skills that are essential for passing Bio 10.

**Volunteer Instructor / Prison University Project / Patten College,  
San Quentin State Prison**

*Pre-Algebra Math*  
*Spring 2005-Fall 2007; Fall 2009*

Part of a group of several volunteers responsible for aiding individuals with specific problems or questions about the material.

**Graduate Student Instructor / University of California, Berkeley**

*Arachnology Lab, ESPM 132*  
*Spring 2005; Spring 2008*

Sole instructor, designed entire lab curricula which included field trips, collecting, identifying and curating; partnered with East Bay Regional Parks to produce a species list.

**Volunteer Instructor / Prison University Project / Patten College,  
San Quentin State Prison**

*Evolution & Invertebrate Diversity*  
*Spring 2004*

## Academic Service

Coordinator, Science Seminar Series, Berkeley City College (Spring 2012)  
Editorial Board Member of *Arthropoda Selecta*  
Copyeditor for *The Spider Genera of North America* revision  
Journal reviewer for: *Molecular Ecology*, *Molecular Phylogenetics and Evolution*, *Systematic Biology*, *Journal of Biogeography*, *Invertebrate Biology*, *Journal of Arachnology*, *Zoological Journal of the Linnaean Society*, *Zootaxa*



Editor at *ZooKeys* (Spider Systematics and Taxonomy)

## Awards and Honors

### **International Congress of Arachnology, Sao Paolo, Brasil**

Best verbal presentation (2007)

### **International Biogeography Society**

NSF Travel Award (2006)

## Conference Presentations

### **American Arachnological Society Annual Meeting**

(2002, 2003, 2008)

### **International Congress of Arachnology**

(2004, 2007, 2016)

### **Joint annual meeting of the Society for the Study of Evolution, the Society of Systematic Biologists, and the American Society of Naturalists**

(2003, 2005, 2006)

## Outreach and Volunteer Work

Natural history field trips with students from Marin Academy biology classes (2012–2015)

Entomological Students' Organization – Presentations at elementary and middle schools in the Bay Area on arthropods and biology/being a biologist (2003–2008)

Cal Day, headed the Bug Zoo (2003–2008)

Mentored and published paper with undergraduate students, Elliot Rutstein and April Yang (2005–2008)

Volunteer instructor, San Quentin State Prison (2004–2009)

## Fieldwork

I have conducted fieldwork in the following countries: Australia [WA, QLD, NT, NSW], United States [most states, but primarily in the deserts - since 2000], Mexico, Honduras, El Salvador, Guatemala, Costa Rica, Colombia, Nicaragua, Canary Islands, Jamaica, Haiti, Dominican Republic, Puerto Rico, St. Maarten, Saba, Anguilla, St. Kitts and Nevis, Antigua, Dominica, Trinidad and Tobago, Grenada, St. Vincent and the Grenadines, Martinique, Guadeloupe, British Virgin Islands, US Virgin Islands, St. Lucia, Barbados.



I was primarily collecting spiders or other invertebrates on these trips, primarily by hand. I have also set pitfall arrays, sifted litter, used Winkler and Berlese funnels, nets, blacklights, mercury vapor lights. I have also collected lizards and snakes (desert SW, Mexico - Chiapas).



## Academic References

**Lauren Esposito**

Curator of Arachnology  
California Academy of Sciences  
415-379-5312  
lesposito@calacademy.org

**Joseph Spagna**

Professor of Biology  
William Paterson University  
Department of Biology  
973-720-2793  
SpagnaJ@wpunj.edu

**Mark S. Harvey**

Curator of Terrestrial Invertebrates  
Western Australian Museum  
Welshpool, Western Australia  
61 8 9212 3737  
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**Rosemary G. Gillespie**

Professor of Biology, Schlinger Chair of Arachnology  
University of California, Berkeley  
Division of Organisms and Environment  
510-642-3445  
gillespie@berkeley.edu

**Brent D. Opell**

Professor of Biology  
Virginia Tech  
Department of Biology  
540-231-7445  
bopell@vt.edu

The following external reference is someone who can evaluate my qualifications,  
but with whom I have not worked directly:

**Jimmy A. McGuire**

Professor of Biology  
Department of Integrative Biology  
University of California, Berkeley  
510-316-6201  
mcguirej@berkeley.edu

