



## CURRICULUM VITAE

# Sarah C. Crews

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

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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

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 Wienskosi, 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
5. **Leaché AD, SC Crews, MJ Hickerson** (2007)  
Two waves of diversification in mammals and reptiles of Baja California revealed by hierarchical Bayesian analysis  
*Biology Letters* v. 3: 646-650
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)  
Selenopidae  
In: *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



## News Coverage

### **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://news.nationalgeographic.com/2018/02/spinning-selenopidae-spider-hunts-prey-spd/>

### **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**

*"Arachno-filia"*

B. Riggs, Winter 2007

## Grant Funding

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 / 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*

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*

Copyeditor for *The Spider Genera of North America* revision

## Awards and Honors

**International Congress of Arachnology, Sao Paulo, 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)

## 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  
mark.harvey@museum.wa.gov.au

### **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

