



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

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
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*



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

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 / Summer Systematics Institute, CAS

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

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*

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)

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
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Joseph Spagna

Professor of Biology
William Paterson University
Department of Biology
973-720-2793
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Mark S. Harvey

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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
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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
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