



CURRICULUM VITAE

Sarah C. Crews

Research Associate / 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-February 2026

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

46. **Montana KO, F Cala-Riquelme, SC Crews, JA Gorneau, A Al-Jamal, Id alequín, JC Spagna, F Ballarin, LA Esposito** (2024) Tailor's drawer no more: a reappraisal of the spider family Dictynidae O. Pickard-Cambridge, 1871 *sensu lato*. *Zoological Journal of the Linnean Society* 204 (2). <https://doi.org/10.1093/zoolinnean/zlaf007>
45. **Gorneau, JA, F Cala-Riquelme, SC Crews, KO Montana, JC Spagna, CJ Vink, LA Esposito** (2025) Mystery on the Bounty: the family-level status of *Pacificana cockayni* Hogg, 1904 (Araneae). *Molecular Phylogenetics and Evolution* 204. <https://doi.org/10.1016/j.ympev.2024.108256>
44. **Montana KO, TM Gosliner, SC Crews, LJ Bonomo, JT Carlton, RF Johnson** (2024) Why didn't the nudibranch cross the ocean? Understanding biogeographic and evolutionary relationships of *Hermisenda* (Nudibranchia: Myrrhinidae) Bergh, 1878. *PLOS ONE*. DOI: <https://doi.org/10.1101/2024.06.23.600287>
43. **Gorneau E, SC Crews, F Cala-Riquelme, K Montana, JC Spagna, F Ballarin, L Almeida-Silva, LA Esposito** (2023) Webs of intrigue: museum genomics elucidate relationships of the marronoid spider clade (Araneae). *Insect Systematics and Diversity* 7(5) 1-18. DOI: <http://dx.doi.org/10.1093/isd/ixad021>
42. **Morrill E, SC Crews, LA Esposito, M Ramírez, C Griswold** (2023) A revision of the genus *Porteria* and the phylogeny and biogeography of Porteriinae (Araneae: Desidae). *Zoological Journal of the Linnean Society* 198(2). DOI: <http://dx.doi.org/10.1093/zoolinnean/zlac093>
41. **Crews SC** (2023) But wait, there's more! Descriptions of new species and undescribed sexes of flattie spiders (Araneae, Selenopidae, *Karaops*) from Australia. *ZooKeys* 1150 (1-2): 1-189. DOI: <http://dx.doi.org/10.3897/zookeys.1150.93760>
40. **Yuan ML, SC Crews, LA Esposito, LC Allen, RC Bell** (2023) Presence of the Island Least Gecko *Sphaerodactylus sputator*, confirmed for Saba, Caribbean Netherlands. *Herpetology Notes* 16: 1-4.
39. **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>
38. **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
37. **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



36. **Crews SC** (2020) My dream of visiting every pile of rocks in Australia. *Australasian Arachnology* 89: 38-39.
35. **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
34. **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
33. **Kurczewski FE, RC West, SC Crews, NR Jenzen-Jones** (2020) Selenopidae (Arachnida: Araneae), a new host spider family for the spider wasp *Tachypompilus ferrugienus* (Say) (Hymenoptera: Pompilidae: Pomilini). *Insecta Mundi* 0824: 1-6.
32. **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>
31. **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/zoolinean/zlz139>
30. **Crews SC** (2019) Just another pile of Aussie rocks. *Australasian Arachnology* 87: 28-31.
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. DOI: <https://doi.org/10.18475/cjos.v49i2.a3>
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. <https://doi.org/10.1656/058.017.0114>
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. DOI: <https://doi.org/10.18475/cjos.v49i1.a9>
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. DOI: 10.1111/ivb.12128
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. DOI: <https://doi.org/10.2984/70.2.8>
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. <http://dx.doi.org/10.11646/zooaxa.3647.3.3>
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. <https://doi.org/10.1111/j.1095-8312.2010.01494.x>
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. <https://doi.org/10.1071/IS10001>



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. <https://doi.org/10.1016/j.ympev.2009.10.012>
8. **Crews SC** (2009) Assessment of rampant genitalic variation in the spider genus *Homalonychus* Araneae; Homalonychidae). *Invertebrate Biology* 128: 107-125. <https://doi.org/10.1111/j.1744-7410.2008.00157.x>
7. **Crews SC, LE Stevens** (2009) Spiders of Ash Meadows National Wildlife Refuge, Nevada. *Southwestern Naturalist* 54: 331-340. <https://doi.org/10.1894/JC-22.1>
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. DOI: 10.1080/00222930802354183
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. DOI: <https://doi.org/10.1098/rsbl.2007.0368>
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. <https://doi.org/10.1636/S04-106.1>
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. <https://doi.org/10.1016/j.ympev.2005.11.010>
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.

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



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

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 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*, *ZooKeys*
- Subject Editor at *ZooKeys* (Spider Systematics and Taxonomy)
- Subject Editor at *Pan-Pacific Entomologist* (Arachnida)

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, 2023)

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

- Editing papers for English language free for graduate students and those without funding (2008-current)
- 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)



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 mostly 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, black-lights, mercury vapor lights. I have also collected lizards and snakes (desert SW, Mexico - Chiapas).

Academic References

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
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Brent D. Opell

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Virginia Tech
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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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