

# ***Curriculum Vitae: Lorenzo Prendini, Ph.D.***

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## **Education**

Ph.D., Zoology, University of Cape Town, South Africa (2001)

B.Sc. (Hons), Zoology, University of Cape Town, South Africa (1995)

B.Sc., Botany & Zoology, University of the Witwatersrand, Johannesburg, South Africa (1994)

## **Appointments**

Curator, Division of Invertebrate Zoology, AMNH (2012–)

Professor, Richard Gilder Graduate School of Comparative Biology, AMNH (2008–)

Associate Curator, Division of Invertebrate Zoology, AMNH (2007–2012)

Assistant Curator, Division of Invertebrate Zoology, AMNH (2002–2007)

## **Adjunct Appointments**

Adjunct Professor, Department of Entomology, Colorado State University (2008–)

Research Associate, National Museum of Namibia (2006–)

Research Associate, Ditsong National Museum of Natural History, Pretoria, South Africa (2004–)

Adjunct Professor, Department of Entomology, Cornell University (2004–)

Adjunct Professor, Department of Biology (Ecology, Evolution and Behavior), CUNY (2003–)

## **Associate Editor/Editorial Board Member**

*Iranian Journal of Animal Biosystematics* (2018–)

*European Journal of Taxonomy* (2012–)

*Arthropod Systematics and Phylogeny* (Chelicerata, Pantopoda) (2010–)

*ISRN Zoology* (2010–2014)

*American Museum Novitates* and *Bulletin of the American Museum of Natural History* (2008–)

*ZOOTAXA* (Amblypygi, Schizomida, Scorpiones, Solifugae, Thelyphonida) (2005–)

*Cladistics* (2004–)

*Journal of Afrotropical Zoology* (2004–2011)

## **Professional Affiliations**

African Arachnological Society; American Arachnological Society; Entomological Society of Southern Africa; The Explorer's Club (Fellow); International Society of Arachnology (Executive Committee, 2007–2010); Society of Systematic Biologists; South African Society of Systematic Biology; Willi Hennig Society (Fellow; Council, 2008–2011); Zoological Society of Southern Africa.

## **Publications**

González-Santillán, E. and **Prendini, L.** 2018. Systematic revision of the North American syntropic vaejoid scorpion genera *Balsateres*, *Kuarapu*, and *Thorellius* with descriptions of three new species. *Bulletin of the American Museum of Natural History* **420**: 1–81.

Esposito, L.A., Yamaguti, H.Y., Pinto-da-Rocha, R. and **Prendini, L.** 2018. Plucking with the plectrum: Phylogeny of the New World buthid scorpion subfamily Centruroidinae Kraus, 1955 (Scorpiones: Buthidae) reveals evolution of three pecten-sternite stridulation organs. *Arthropod Systematics and Phylogeny* **76**(1): 87–122.

Schaffrath, S., **Prendini, L.**, and Predel, R. 2018. Intraspecific venom variation in southern African scorpion species of the genera *Parabuthus*, *Uroplectes* and *Opisthophthalmus* (Scorpiones: Buthidae, Scorpionidae). *Toxicon* **144**: 83–90.

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- Loria, S.F., and **Prendini, L.** 2018. Ultrastructural comparison of the eyespot and ocelli of scorpions, and implications for the systematics of Chaerilidae Pocock, 1893. *Zoologischer Anzeiger* **273**: 183–191. DOI: 10.1016/j.jcz.2017.12.011.
- Silva de Miranda, G., Giupponi, A.P.L., **Prendini, L.**, and Scharff, N. 2018. *Weygoldtia*, a new genus of Charinidae Quintero, 1986 (Arachnida, Amblypygi) with a reappraisal of the genera in the family. *Zoologischer Anzeiger* **273**: 23–32. DOI: 10.1016/j.jcz.2018.02.003.
- Rubin, M., Lamsdell, J.C., **Prendini, L.** and Hopkins, M.J. 2017. Exocuticular hyaline layer of sea scorpions and horseshoe crabs suggests cuticular fluorescence is plesiomorphic and non-adaptive in scorpions. *Journal of Zoology (London)* **303**: 245–353. DOI: 10.1111/jzo.12493.
- Esposito, L.A., Yamaguti, H.Y., Souza, C.A., Pinto-da-Rocha, R. and **Prendini, L.** 2017. Systematic revision of the Neotropical club-tailed scorpions, *Physoctonus*, *Rhopalurus*, and *Troglophopalurus*, revalidation of *Heteroctenus*, and description of two new genera and three new species (Buthidae: Rhopalurusinae). *Bulletin of the American Museum of Natural History* **415**: 1–134.
- Rogers, D.C., et al. [list of authors including **Prendini, L.**] 2017. Images are not and should not ever be type specimens: A rebuttal to Garraffoni & Freitas. *Zootaxa* **4269**(4): 455–459.
- Wheeler W.C., Coddington, J.A., Crowley, L.M., Dimitrov, D., Goloboff, P.A., Griswold, C.E., Hormiga, G., **Prendini, L.**, Ramírez, M.J., Sierwald, P., Almeida-Silva, L., Alvarez-Padilla, F., Arnedo, M.A., Benavides Silva, L.R., Benjamin, S.P., Bond, J.E., Grismado, C.J., Hasan, E., Hedin, M., Izquierdo, M.A., Labarque, F.M., Ledford, J., Lopardo, L., Maddison, W.P., Miller, J.A., Piacentini, L.N., Platnick, N.I., Polotow, D., Silva-Dávila, D., Scharff, N., Szuts, T., Ubick, D., Vink, C.J., Wood, H.M., and Zhang, J. 2016. The spider tree of life: Phylogeny of Araneae based on target-gene analyses from an extensive taxon sampling. *Cladistics* 1–43 DOI: 10.1111/cla.12182.
- Cerriaco, L.M.P., Gutiérrez, E.E., Dubois, A., et al. [493 coauthors including **Prendini, L.**] 2016. Photography-based taxonomy is inadequate, unnecessary, and potentially harmful for biological sciences. *Zootaxa* **4196**(3): 435–445.
- Franz-Guess, S., Klußman-Fricke, B.-J., Wirkner, C.S., **Prendini, L.**, and Starck, J.M. 2016. Morphology of the tracheal system of camel spiders (Chelicerata: Solifugae) based on micro-CT and 3D-reconstruction in exemplar species from three families. *Arthropod Structure & Development* **45**: 440–451.
- Amorim, D.S., Santos, C.M.D., Krell, F.-T., Dubois, A., Nihei, S.S., Oliveira, O.M.P., Pont, A., Song, H., Verdade, V.K., Fachin, D.A., Klassa, B., Lamas, C.J.E., Oliveira, S.S., De Carvalho, C.J.B., Mello-Patiu, C.A., Hajdu, E., Couri, M.S., Silva, V.C., Capellari, R.S., Falaschi, R.L., Feitosa, R.M., **Prendini, L.**, Pombal Jr., J.P., Fernández, F., Rocha, R.M., Lattke, J.E., Caramaschi, U., Duarte, M., Marques, A.C., Reis, R.E., Kurina, O., Takiya, D.M., Tavares, M., Fernandes, D.S., Franco, F.L., Cuezco, F., Paulson, D., Guénard, B., Schlick-Steiner, B.C., Arthofer, W., Steiner, F.M., Fisher, B.L., Johnson, R.A., Delsinne, T.D., Donoso, D.A., Mulieri, P.R., Patitucci, L.D., Carpenter, J.M., Herman, L., and Grimaldi, D. 2016. Timeless standards for species delimitation. *Zootaxa* **4137**(1): 121–128.
- Prendini, L.** 2016. Redefinition and systematic revision of the East African scorpion genus *Pandinoidea* (Scorpiones: Scorpionidae) with critique of the taxonomy of *Pandinus*, sensu lato. *Bulletin of the American Museum of Natural History* **407**: 1–66.
- González-Santillán, E. and **Prendini, L.** 2016. Systematic revision of the North American syntropine vaejovoid scorpion genera *Maaykuyak*, *Syntropis*, and *Vizcaino*, with description of the adults of *Syntropis williamsi*. *Bulletin of the American Museum of Natural History* **405**: 1–67.

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- Adams, A., Marais, E., Turner, S., **Prendini, L.**, and Pinshow, B. 2016. Similar burrow architecture of three arid-zone scorpion species implies similar ecological function. *Naturwissenschaften (The Science of Nature)* **103**: 56. DOI: 10.1007/s00114-016-1374-z.
- Ceccarelli, F.S., Ojanguren-Affilastro, A.A., Ramírez, M.J., Ochoa, J.A., Mattoni, C.I., and **Prendini, L.** 2016. Andean uplift drives diversification of the bothriurid scorpion genus *Brachistosternus*. *Journal of Biogeography*. [Early Edition: DOI: 10.1111/jbi.12760]
- Janion-Scheepers, C., Measey, J., Braschler, B., Chown, S.L., Coetzee, L., Colville, J., Dames, J., Davies, A.B., Davis, A., Davies, S., Dippenaar-Schoeman, A., Duffy, G., Fourie, D., Griffiths, C., Haddad, C., Hamer, M., Herbert, D., Hugo-Coetzee, L.E.A., Jacobs, A., Jansen van Rensburg, C., Lamani, S., Lotz, L.N., Louw, S., Lyle, R., Malan, A., Marais, M., Neethling, J.-A., Nxele, T., Plisko, D., **Prendini, L.**, Swart, A., Theron, P., Truter, M., Ueckermann, E., Uys, V.M., Villet, M.H., Willows-Munrow, S., and Wilson, J.R.U. 2016. Soil biota in a megadiverse country: Current knowledge and future directions in South Africa. *Pedobiologia – J. Soil Ecol.* **59**: 129–174.
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- Maquart, P.O., Réveillon, F., **Prendini, L.**, Burger, M., Fisher, B.L., and Van Noort, S. 2016. New distribution records for African Amblypygi. *African Entomology* **24**(1): 245–246.
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- Prendini, L.** 2015. Three new *Uroplectes* (Scorpiones: Buthidae) with punctate metasomal segments from tropical central Africa. *American Museum Novitates* **3840**: 1–32.
- González-Santillán, E. and **Prendini, L.** 2015. Systematic revision of the North American syntropine vaejovid scorpions with a subaculear tubercle, *Konetontli* González-Santillán and Prendini, 2013. *Bulletin of the American Museum of Natural History* **397**: 1–78.
- Prendini, L.** 2015. A remarkably small species of *Uroplectes* Peters, 1861 (Scorpiones: Buthidae) endemic to the Succulent Karoo of the Northern Cape Province, South Africa. *African Invertebrates* **56**(2): 499–513.
- Cushing, P.E., Graham, M.R., **Prendini, L.**, and Brookhart, J.O. 2015. A multilocus molecular phylogeny of the endemic North American camel spider family Eremobatidae (Arachnida: Solifugae). *Molecular Phylogenetics and Evolution* **92**: 280–293.
- Bird, T.L., Wharton, R.A., and **Prendini, L.** 2015. Cheliceral morphology in Solifugae (Arachnida): Primary homology, terminology, and character survey. *Bulletin of the American Museum of Natural History* **394**: 1–355.
- Talal, S., Tesler, I., Sivan, J., Ben-Shlomo, R., Tahir, H.M., **Prendini, L.**, Snir, S., and Gefen, E. 2015. Scorpion speciation in the Holy Land: Multilocus phylogeography corroborates diagnostic differences in morphology and burrowing behavior among *Scorpio* subspecies and justifies recognition as phylogenetic, ecological and biological species. *Molecular Phylogenetics and Evolution* **91**: 226–237.
- González-Santillán, E. and **Prendini, L.** 2015. Phylogeny of the North American vaejovid scorpion subfamily Syntropinae Kraepelin, 1905, based on morphology, mitochondrial and nuclear DNA. *Cladistics* **31**(4): 341–405.
- Mattoni, C.I., García-Hernández, S., Botero-Trujillo, R., Ochoa, J.A., Ojanguren-Affilastro, A.A., Pinto-da-Rocha, R., and **Prendini, L.** 2015. Scorpion sheds 'tail' to escape: Consequences and implications of autotomy in scorpions (Buthidae: *Ananteris*). *PLoS One* **10**(1): e0116639 (15 pp.). DOI: 10.1371/journal.pone.0116639.
- Santibáñez-López, C.E., Francke, O.F. and **Prendini, L.** 2014. Shining a light into the world's deepest caves: Phylogenetic systematics of the troglolithic scorpion genus *Alacran* Francke, 1982 (Typhlochactidae: Alacraninae). *Invertebrate Systematics* **28**: 643–664.

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- Loria, S.F. and **Prendini, L.** 2014. Homology of the lateral eyes of Scorpiones: A six-ocellus model. *PLoS One* **9**(12): e112913 (30 pp.). DOI: 10.1371/journal.pone.0112913.
- Santibáñez-López, C.E., Francke, O.F. and **Prendini, L.** 2014. *Kolotl* n. gen. (Scorpiones: Diplocentridae) a new scorpion genus from Mexico. *American Museum Novitates* **3815**: 1–14.
- Foord, S.H., Gelebe, V., and **Prendini, L.** 2014. Effects of aspect and altitude on scorpion diversity along an environmental gradient in the Soutpansberg, South Africa. *Journal of Arid Environments* **113**: 114–120.
- Tahir, H.M., Navidpour, S., and **Prendini, L.** 2014. First reports of *Razianus* Farzanpay, 1987 (Scorpiones: Buthidae) from Iraq and Pakistan, descriptions of two new species, and redescription of *Razianus zarudnyi* (Birula, 1903). *American Museum Novitates* **3806**: 1–26.
- Tahir, H.M. and **Prendini, L.** 2014. Redescription of *Heterometrus latimanus* and confirmation of the genus *Heterometrus* (Scorpiones: Scorpionidae) in Pakistan. *American Museum Novitates* **3805**: 1–23.
- Cushing, P.E., Casto, P., Knowlton, E.D., Royer, S., Laudier, D., Gaffin, D.D., **Prendini, L.**, and Brookhart, J.O. 2014. Comparative morphology and functional significance of setae called papillae on the pedipalps of male camel spiders (Arachnida, Solifugae). *Annals of the Entomological Society of America* **107**(2): 510–520.
- Monod, L. and **Prendini, L.** 2014. Evidence for Eurogondwana: The roles of dispersal, extinction and vicariance in the evolution and biogeography of Indo-Pacific Hormuridae (Scorpiones: Scorpionoidea). *Cladistics* **31**(1): 71–111.
- Bryson, R.W., Jr., **Prendini, L.**, Savary, W.E., and Pearman, P.B. 2014. Caves as microrefugia: Pleistocene phylogeography of the troglomorphic North American scorpion *Pseudouroctonus reddelli*. *BMC Evolutionary Biology* **14**(9): 1–16.
- Miller, A.L., Makowsky, R.A., Formanowicz, D.R., **Prendini, L.**, and Cox, C.L. 2014. Cryptic genetic diversity and complex phylogeography of the boreal North American scorpion, *Paruroctonus boreus* (Vaejovidae). *Molecular Phylogenetics and Evolution* **71**: 298–307.
- González-Santillán, E. and **Prendini, L.** 2013. Redefinition and generic revision of the North American vaejovid scorpion subfamily Syntropinae Kraepelin, 1905, with descriptions of six new genera. *Bulletin of the American Museum of Natural History* **382**: 1–71.
- Monod, L., Harvey, M.S., and **Prendini, L.** 2013. Stenotopic *Hormurus* Thorell, 1876 scorpions from the monsoon ecosystems of northern Australia, with a discussion on the evolution of burrowing behaviour in Hormuridae Laurie, 1896. *Revue suisse de Zoologie* **120**(2): 281–346.
- Graham, M.R., Jaeger, J.R., **Prendini, L.**, and Riddle, B.R. 2013. Phylogeography of Beck's desert scorpion, *Paruroctonus becki*, reveals Pliocene diversification in the Eastern California Shear Zone and postglacial expansion in the Great Basin Desert. *Molecular Phylogenetics and Evolution* **69**: 502–513.
- Bryson, R.W., Jr., Savary, W.E., and **Prendini, L.** 2013. Biogeography of scorpions in the *Pseudouroctonus minimus* complex (Vaejovidae) from south-western North America: Implications of ecological specialization for pre-Quaternary diversification. *Journal of Biogeography* **40**(10): 1850–1860. DOI: 10.1111/jbi.12134.
- Santibáñez-López, C.E., Francke, O.F. and **Prendini, L.** 2013. Systematics of the *keyserlingii* group of *Diplocentrus* Peters, 1861 (Scorpiones: Diplocentridae), with descriptions of three new species from Oaxaca, Mexico. *American Museum Novitates* **3777**: 1–47.
- Ochoa, J.A., Rojas-Runjaic, F., Pinto-da-Rocha, R., and **Prendini, L.** 2013. Systematic revision of the Neotropical genus *Chactopsis* Kraepelin, 1912 (Scorpiones: Chactidae), with

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- descriptions of two new genera and four new species. *Bulletin of the American Museum of Natural History* **378**: 1–121.
- Bryson, R.W., Jr., Riddle, B.R., Graham, M.R., Tilston Smith, B., and **Prendini, L.** 2013. As old as the hills: Montane scorpions in southwestern North America reveal an ancient association between biotic diversification and landscape history. *PLoS One* **8**(1): e52822 (11 pp.).
- Murienne, J., Benavides, L.R., **Prendini, L.**, Hormiga, G., and Giribet, G. 2013. Forest refugia in Western and Central Africa as ‘museums’ of Mesozoic biodiversity. *Biology Letters* **9**: 20120932 (8 pp.).
- Graham, M.R., Jaeger, J.R., **Prendini, L.**, and Riddle, B.R. 2013. Phylogeography of the Arizona hairy scorpion (*Hadrurus arizonensis*) supports a model of biotic assembly in the Mojave Desert and adds a new Pleistocene refugium. *Journal of Biogeography* **40**(7): 1298–1312. DOI: 10.1111/jbi.12079.
- Klußman-Fricke, B.-J., **Prendini, L.**, and Wirkner, C.S. 2012. Evolutionary morphology of the hemolymph vascular system in scorpions: A character analysis. *Arthropod Structure & Development* **41**: 545–560.
- Volschenk, E.S., Harvey, M.S. and **Prendini, L.** 2012. A new species of *Urodacus* (Scorpiones: Urodacidae) from Western Australia. *American Museum Novitates* **3748**: 1–18.
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- Prendini, L.** 2012. The scorpion king. Among the most long-lived terrestrial arthropods. *Asian Geographic* **87**(2): 86–89.
- Ojanguren-Affilastro, A.A., Mattoni, C.I., Ochoa, J.A., and **Prendini, L.** 2012. *Rumikiru*, n. gen. (Scorpiones: Bothriuridae), a new scorpion genus from the Atacama Desert. *American Museum Novitates* **3731**: 1–43.
- Mattoni, C.I., Ochoa, J.A., Ojanguren-Affilastro, A.A., and **Prendini, L.** 2012. *Orobothriurus* (Scorpiones: Bothriuridae) phylogeny, Andean biogeography, and the relative importance of genitalic and somatic characters. *Zoologica Scripta* **41**(2): 160–176.
- Engelbrecht, I. and **Prendini, L.** 2012. Cryptic diversity of South African trapdoor spiders: Three new species of *Stasimopus* Simon, 1892 (Mygalomorphae, Ctenizidae), and redescription of *Stasimopus robertsi* Hewitt, 1910. *American Museum Novitates* **3732**: 1–42.
- Prendini, L.** 2011. Order Scorpiones C.L. Koch, 1850. In: Zhang, Z.-Q. (Ed.) Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness. *Zootaxa* **3148**: 115–117.
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- Ojanguren-Affilastro, A.A., Pizarro-Araya, J., and **Prendini, L.** 2011. New data on Chilean *Urophonius* Pocock, 1893 (Scorpiones, Bothriuridae), with description of a new species. *American Museum Novitates* **3725**: 1–44.
- Ochoa, J.A., Ojanguren-Affilastro, A.A., Mattoni, C.I., and **Prendini, L.** 2011. Systematic revision of the Andean scorpion genus *Orobothriurus* Maury, 1976 (Bothriuridae), with discussion of the altitude record for scorpions. *Bulletin of the American Museum of Natural History* **359**: 1–90.
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- Prendini, L.** and Esposito, L.A. 2010. A reanalysis of *Parabuthus* (Scorpiones: Buthidae) phylogeny with descriptions of two new *Parabuthus* species endemic to the Central Namib gravel plains, Namibia. *Zoological Journal of the Linnean Society* **159**: 673–710.
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- AMNH press center (<http://www.amnh.org/about-us/press-center/a-close-look-at-formidable-camel-spider-jaws>) and EurekAlert ([http://www.eurekalert.org/pub\\_releases/2015-06/amon-stc062215.php](http://www.eurekalert.org/pub_releases/2015-06/amon-stc062215.php)): 'Study Takes Close Look at Formidable Camel Spider Jaws' by K. Snyder, 22 June 2015, and (<http://www.amnh.org/explore/news-blogs/research-posts/close-up-on-the-fearsome-jaws-of-camel-spiders>): 'Close Up on the Fearsome Jaws of Camel Spiders'; Live Science (<http://www.livescience.com/51377-camel-spider-jaw-study.html>): 'Camel Spider's Fierce Jaw is Focus of New Creepy Crawly 'Dictionary'' by E. Palermo, 29 June 2015; io9 (<http://io9.com/to-gaze-into-the-jaws-of-camel-spiders-is-to-gaze-into-1713133140>): 'To Gaze into the Jaws of Camel Spiders is to Gaze into the Jaws of Hell' by E. Inglis-Arkell, 23 June 2015; International Business Times (<http://www.ibtimes.co.uk/fearsome-jaw-camel-spider-unveiled-visual-atlas-graphic-images-1507411>): 'Warning potentially scary images: Fearsome jaw of camel spider unveiled in 'visual atlas'' by H. Osbourne, 22 June 2015; BBC Earth (<http://www.bbc.com/earth/story/20150630-inside-the-jaws-of-camel-spiders>): 'Inside the Jaws of Camel Spiders' by M. Hogenboom, 30 June 2015; Natural History Magazine (<http://www.naturalhistorymag.com/features/122921/the-naming-of-parts>): 'The Naming of Parts' by T. Bird, November 2015. LabRoots (<http://labroots.com/trending/plants-and-animals/1291/miss-muffet-s-worst-nightmare>): 'Miss Muffet's Worst Nightmare' by B.K. Kim, 25 June, 2015.
- LiveScience (<http://www.livescience.com/53701-snake-loses-battle-against-spider-photo.html>): 'Reptile Dysfunction: Snake Loses Wild Battle Against Spider' by J. Bryner, 12 February 2016.
- UnDark (<http://undark.org/article/zika-and-the-folly-of-mosquito-specicide/>): 'The Allure and Folly of Specicide' by L. Peeples, 13 May 2016.
- AMNH News & Blogs (<http://www.amnh.org/explore/news-blogs/research-posts/dna-study-suggests-scorpions-diversified-as-andes-formed>): 'DNA Study Suggests Scorpions Diversified as Andes Formed' by K. Snyder, 16 May 2016.
- AMNH press center (<http://www.amnh.org/about-the-museum/press-center/scorpions-have-similar-tastes-in-burrow-architecture>) : 'Scorpions Have Similar Tastes in Burrow Architecture' by K. Snyder, 21 June 2016. Also:  
<https://www.sciencedaily.com/releases/2016/06/160621143632.htm>;  
<https://phys.org/news/2016-06-scorpions-similar-burrow-architecture.html>;  
<http://esciencenews.com/sources/newswise.scinews/2016/06/21/scorpions.have.similar.taste.s.burrow.architecture>; Science News ([http://www.upi.com/Science\\_News/2016/06/21/Burrow-building-scorpions-have-consistent-tastes/5281466538123/](http://www.upi.com/Science_News/2016/06/21/Burrow-building-scorpions-have-consistent-tastes/5281466538123/)): 'Burrow-building scorpions have consistent tastes' by B. Hays, 21 June 2016. IFL Science (<http://www.iflscience.com/plants-and-animals/scorpions-similar-tastes-interior-burrow-design/page-2/>): 'Scorpions Have Similar Tastes In Interior Burrow Design', 22 June 2016. PopSci (<http://www.popsci.com/aluminum-casts-scorpion-burrows>): 'Different scorpion species share similar taste in interior design' by C. McDonald, 23 June 2016. Live Science (<http://www.livescience.com/55236-scorpions-burrows-revealed-in-3d.html>): 'Scorpion Architects Build Lairs with Porches and Mating Rooms' by M. Weisberger, 29 June 2016. The Rainforest Site (<http://blog.therainforestsite.com/cs-scorpion-burrows>): 'Scorpions Everywhere Love to Build Burrows', 20 July 2016.
- AMNH News & Blogs (<http://www.amnh.org/explore/news-blogs/research-posts/camel-spider-respiration-makes-them-potent-predators>): 'Respiration Makes Camel Spiders Potent Predators' by A. Chant, 15 September 2016. Also:  
[https://article.wn.com/view/2016/09/15/Respiration\\_Makes\\_Camel\\_Spiders\\_Potent\\_Predators\\_American\\_Mu/](https://article.wn.com/view/2016/09/15/Respiration_Makes_Camel_Spiders_Potent_Predators_American_Mu/)
- California Academy of Sciences (<http://www.calacademy.org/press/releases/three-new-%E2%80%9Cclub-tailed%E2%80%9D-scorpions-join-the-tree-of-life>): 'Three New 'Club-Tailed' Scorpions Join the Tree of Life', 24 July 2017. Also:  
EurekAlert! ([https://www.eurekalert.org/pub\\_releases/2017-07/caos-tn072117.php](https://www.eurekalert.org/pub_releases/2017-07/caos-tn072117.php));  
PhysOrg (<https://phys.org/news/2017-07-club-tailed-scorpions-tree-life.html>);  
ScienceDaily (<https://www.sciencedaily.com/releases/2017/07/170724090753.htm>);  
Jersey Tribune (<http://jerseytribune.com/2017/07/24/three-new-club-tailed-scorpions-join-the-tree-of-life>); and Science News (<http://www.sci-news.com/biology/three-new-species-club->

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[tailed-scorpions-05083.html](#)): 'Arachnologists Discover Three New Species of 'Club-Tailed' Scorpions', 28 July 2017.

New York Times (<https://www.nytimes.com/2017/08/04/science/new-scorpions-species.html>): 'Scorpions Are Ancient, but Some Species Are New to Science' by J. Gorman, 4 August 2017.

Live Science (<https://www.livescience.com/61999-tarantula-spider-rescued-from-flood.html>): 'Faced with Drowning, This Giant Tarantula Goes Out on a Limb' by L. Geggel, 12 March 2018.

### **Oral Presentations**

**Plenary:** Inaugural Conference, South African Society for Systematic Biology (1999); 5<sup>th</sup> International Symposium on Tropical Biology, Museum Alexander Koenig, Bonn (2004); XXI Congreso Venezolano de Entomología, Universidad Simón Bolívar, Caracas (2009); 26<sup>th</sup> European Congress of Arachnology, Ben-Gurion University of the Negev, Israel (2011); University of Sargodha, Pakistan (2012).

**Invited:** University of Cape Town (1995, 1998, 2000); University of Pretoria (2000); Symposium, Scorpion Toxins from southern Africa, Katolieke Universiteit, Leuven (1998); AMNH, New York (2000, 2002, 2005, 2007, 2008, 2012); New Mexico State University, Las Cruces (2002); Cornell University, Ithaca (2003); Major Systematic Entomology Facilities Meeting, Plant Protection Research Institute, Pretoria (2003); Zoologisches Museum der Universität Humboldt, Berlin (2004); Friedrich-Schiller-Universität, Jena (2004); Villanova University, PA (2005); Natural History Museum of Zimbabwe, Bulawayo (2013); Rutgers University, Newark (2013); Columbia University Club, New York (2013); Dana Biosphere Reserve, Jordan (2013); Systematics Association Biennial Meeting, Oxford University, UK (2015); South African National Biodiversity Institute, Kirstenbosch, Cape Town (2018).

**Contributed:** 5<sup>th</sup> International Colloquium, Research Group for the Study of African Arachnids (1996); 15<sup>th</sup> Meeting, Willi Hennig Society (1996); Symposia, Zoological Society of Southern Africa (1996, 1997); Joint congress: Entomological Society of Southern Africa (11<sup>th</sup> Congress) and African Association of Insect Scientists (12<sup>th</sup> Congress) (1997); XIV International Congress of Arachnology and 22<sup>nd</sup> Annual Meeting, American Arachnological Society (1998); 23<sup>rd</sup> Annual Meeting, American Arachnological Society (1999); 6<sup>th</sup> International Colloquium, African Arachnological Society (1999); 15<sup>th</sup> International Congress of Arachnology (2001), convened symposium on Scorpiology; 23<sup>rd</sup> Meeting, Willi Hennig Society (2004); 16<sup>th</sup> International Congress of Arachnology (2004); 17<sup>th</sup> International Congress of Arachnology (2007); 19<sup>th</sup> International Congress of Arachnology (2013).

**Coauthored:** 15<sup>th</sup> International Congress of Arachnology (2001); Symposium, Assembling the Tree of Life: Science, Relevance, and Challenges, AMNH, New York (2002); III Encuentro de Aracnólogos del Cono Sur (2003); IV Encuentro de Aracnólogos del Cono Sur (2003); 19<sup>th</sup> Annual Meeting of the Society for the Protection of Natural History Collections (2004); 16<sup>th</sup> International Congress of Arachnology (2004); Assembling the Tree of Life Principal Investigators' Meeting, National Science Foundation, Arlington, VA (2004); Primer Congreso Latinoamericano de Aracnología (2005); 17<sup>th</sup> International Congress of Arachnology (2007); 32<sup>nd</sup> Annual Meeting, American Arachnological Society (2008); 24<sup>th</sup> European Colloquium of Arachnology (2008); 27<sup>th</sup> Meeting of the Willi Hennig Society and VIII Reunión Argentina de Cladística y Biogeografía (2008); 2 Congreso Latinoamericano de Aracnología (2008); 25<sup>th</sup> European Colloquium of Arachnology (2009); 29<sup>th</sup> Meeting, Willi Hennig Society (2010); 18<sup>th</sup> International Congress of Arachnology (2010); 2<sup>nd</sup> International Congress on Invertebrate Morphology (2011); 35<sup>th</sup> Annual Meeting of the American Arachnological Society (2011); 26<sup>th</sup> European Congress of Arachnology (2011); 3<sup>rd</sup> Latin American Congress of Arachnology (2011); X Reunion Argentina de Cladística y Biogeografía, Mendoza, Argentina (2012); 27<sup>th</sup> European Congress of Arachnology (2012); Young Systematists' Forum, London (2012); 19<sup>th</sup> International Congress of Arachnology (2013); 39<sup>th</sup> Annual Meeting of the American Arachnological Society (2015); 20<sup>th</sup> International Congress of Arachnology (2016); 4<sup>th</sup> Conference of the Asian Society of Arachnology (2017).

### **Posters**

16<sup>th</sup> International Congress of Arachnology (2004); Expanding the Ark: The Emerging Science



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and Practice of Invertebrate Conservation. Spring Symposium, Center for Biodiversity and Conservation, American Museum of Natural History, New York (2004); Assembling the Tree of Life Principal Investigators' Meeting, National Science Foundation, Arlington, VA (2004); 22<sup>nd</sup> European Colloquium of Arachnology (2005); 23<sup>rd</sup> European Colloquium of Arachnology (2006); 31<sup>st</sup> Annual Meeting, American Arachnological Society (2007); 17<sup>th</sup> International Congress of Arachnology (2007); 2 Congreso Latinoamericano de Aracnología (2008); 14<sup>th</sup> Natural History Symposium, Gerace Research Center, San Salvador Island, Bahamas (2011); 35<sup>th</sup> Annual Meeting of the American Arachnological Society (2011); 26<sup>th</sup> European Congress of Arachnology (2011); 3<sup>rd</sup> Latin American Congress of Arachnology (2011); Society for Integrative and Comparative Biology, Annual Meeting (2014); Evolution Meetings (2015); 20<sup>th</sup> International Congress of Arachnology (2016); Annual Meeting of the Geological Society of America (2016); 12<sup>th</sup> Colloquium of the African Arachnological Society (2017).

### **Grants**

**American Arachnological Society:** Arachnology Research Fund: USD 400 (1998), USD 800 (2000).

**AMNH Explore21:** 2015: 'Biodiversity Surveys in Poorly Explored Regions of Cuba: Developing New Research Collections and Collaborations' (USD 85,000), 2016: Part 2 (USD 26,716), Co-PI with S. Perkins et al.

**Australian Biological Resources Study:** Co-PI (with E.S. Volschenk and M. Harvey), on 'Revision and Phylogeny of the Australian scorpion genus *Urodacus* Peters (Scorpiones)': AUD 181,135 (2006–2009).

**Ben Gurion University of the Negev, Jacob Blaustein Center for Scientific Cooperation:** Award from Foreign Visiting Lecturers' Program: Salary and travel expenses for fieldwork and intensive course on 'Systematics and Diversity of Scorpions, with Introduction to the Israeli Fauna' at Ben-Gurion University of the Negev, Sede Boqer, in August 2013.

**Botswana International University of Science and Technology Research Initiation Grant:** Collaborator (with PI Tharina Bird) on 'Identification and characterization of novel molecules with potential biomedical applications from scorpion (Arachnida) and centipede (Chilopoda) venom': BWP 200,000 (2018–2019).

**Higher Education Commission, Pakistan:** PI on 'Molecular systematics of medically important scorpions (Family Buthidae) from Pakistan': stipend and subsistence for 12 months in New York for postdoctoral fellow, Muhammad Tahir; USD 10,000 bench fees for Prendini (2012–2013); Visiting Scholar Program: airfare and expenses to lecture and conduct workshop at University of Sargodha, Punjab, and visit collections at Pakistan Museum of Natural History, Islamabad (2012).

**Israel Taxonomy Initiative:** Funds for fieldwork and intensive course on 'Systematics and Diversity of Scorpions, with Introduction to the Israeli Fauna' at Ben-Gurion University of the Negev, Sede Boqer, in August 2013 (USD 3,020).

**JRS Biodiversity Foundation:** Co-PI (with Bridgit Davis) on 'Improvement and Integration of Arachnid Biodiversity Information in South Africa' [<http://jrsmuseum-bloemfontein/>] (USD 180,000), 2012–2014.

**Mohammad bin Zayed Species Conservation Fund:** PI on grant 11252329 'Assessing the Conservation Status of Endangered Scorpions (Scorpionidae: *Opisthophthalmus*) in the Western Cape Province, South Africa' [<http://www.speciesconservation.org/case-studies-projects/black-legged-burrowing-scorpion/2329>]: USD 20,000 (2011–2012).

**National Geographic Society Expedition Grants:** Co-PI (with Pio Colmenares) on WW-214R-17 'Exploring Unknown Arachnid Diversity in the Caves of an Ancient Tepui': USD 18,100 (2017–2018).

**National Science Foundation, U.S.A.:** Co-PI (with W.C. Wheeler, J.A. Coddington, G. Hormiga and P. Sierwald) on EAR 0228699 'Assembling the Tree of Life: Phylogeny of Spiders': USD 2,738,000 (2002–2006); PI (with W.D. Sissom) on DEB 0413453 'REVSYS: Revisionary Systematics of the North American Scorpion Family Vaejovidae' [<http://www.vaejovidae.com/>]: USD 414,578 (2004–2008); Major User (PI: A. Klaus) on DBI 0619559 'Acquisition of a Variable Pressure SEM at the American Museum of Natural History': USD 386,563 (2006); Co-PI (with P.E. Cushing) on DEB 0640219 'Collaborative Research: Global Survey and Inventory of Solifugae' [<http://www.solpugid.com/>]: USD 649,984 (2007–2011); PI (with Lauren Esposito) on

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DEB 0910147 'Dissertation Research: Revision of the New World scorpion genus *Centruroides* Marx, 1890: Systematics and Biogeography': USD 14,847 (2009–2010); PI (with Lionel Monod) on DEB 0910091 'Dissertation Research: The Liochelidae of the Indo-Pacific Region: Systematics and Biogeography': USD 14,750 (2009–2010); PI (with Stephanie Loria) on DEB 1310855 'Dissertation Research: Patterns of Diversity and Endemism in South-East Asian scorpions: Systematics and Biogeography of Chaerilidae': USD 20,766 (2013–2014); PI on 'Living Fossils: Integrating Phylogenomics and Comparative Morphology to Assemble the Scorpion Tree of Life': USD 808,499 (2017–2020).

**Richard Lounsbery Foundation:** Co-PI (with M.E. Siddall and R. DeSalle) on 'DNA barcoding of Leeches and Scorpions': USD 325,000 (2004–2007).

**South African National Research Foundation (NRF), Foundational Biodiversity Information Programme (FBIP):** 'BioGaps: Filling Biodiversity Information Gaps to Support Development Decision Making in the Karoo' [<http://www.sanbi.org/biogaps>] (ZAR 972,000), Collaborator with co-PIs Domitilla Raimondo and Krystal Tolley from the South African National Biodiversity Institute and ca. 30 participants including ca. 10 taxon specialists; AMNH budget: ZAR 89,000 for fieldwork in South Africa and identification of materials collected plus ZAR 140,000 to support South African student to digitize 8,000 scorpion records in AMNH collection.

**Stavros Niarchos Foundation:** Constantine S. Niarchos Expedition grant: USD 7,000 (2003), USD 7,000 (2007), USD 7,500 (2008), USD 6,000 (2009), USD 5,490 (2011), USD 17,788 (2016).

**United States-Israel Binational Science Foundation:** Co-PI (with E. Gefen) on BSF 2014046 'Diversity, Origins and Affinities of the Israeli Scorpion Fauna': USD 135,000 (2015–2018).

**U.S. Academic Institutions:** Theodore Roosevelt Memorial Fund, American Museum of Natural History: USD 1,500 (1997), USD 1,500 (1998); Ernst Mayr Grant, Museum of Comparative Zoology, Harvard University: USD 1,500 (1998); Collections Study Grant, American Museum of Natural History: USD 1,000 (1999); Visiting Researcher, Program for the Promotion of International Partnerships, University of Michigan: airfare from Cape Town, board, lodging and research expenses in Ann Arbor for 3 weeks (1999).

### **Scholarships and Bursaries**

**Corporate Sector, South Africa:** Standard Bank of South Africa: ZAR 7,000 (1992–1994); The Premier Group: 85 % of tuition fees p. a. (1992–1994).

**Private Organisations:** Skye Foundation and Charitable Trust: ZAR 60,000 (2000).

**Foundation for Research Development, South Africa:** B.Sc. Bursary: ZAR 5,000 p.a. (1992–1994); B.Sc. (Hons) Bursary: ZAR 7,000 (1995); M.Sc. Bursary: ZAR 10,000 (1996); Prestigious Bursary, M.Sc.: ZAR 40,000 (1997); Prestigious Bursary, Ph.D.: ZAR 50,000 p.a. (1998, 1999).

**University of Cape Town:** Myer Levinson (EMDIN) Scholarship: ZAR 6,000 p.a. (1996, 1997); S.A. College Croll Scholarship: ZAR 4,900 p.a. (1996, 1997).

### **Awards**

Anglo-American Corporation Open Scholarship Book Prize (1992); Certificates of Merit (Botany, Zoology), University of the Witwatersrand (1992, 1993, 1994); South African Breweries Bronze Medal (1992), Silver Medal (1993), Gold Medal (1994); Tree Society of Southern Africa Prize (1993); Peter Thompson Prize (1993, 1994); John Twinch Memorial Prize (1994); Zoological Society of Southern Africa Award (1994, 1995); Wayne Rendell Memorial Award (1995); Purcell Memorial Prize (1995, 2002); 5<sup>th</sup> International Colloquium of the Research Group for the Study of African Arachnids (1996); 6<sup>th</sup> International Conference of the African Arachnological Society (1999); University of Sargodha, Pakistan (2012).

### **Reviewer**

**Books:** Catalog of the Scorpions of the World (1758–1998) (Fet et al., 2000); Methods and Tools in Biosciences and Medicine: Techniques in Molecular Evolution and Systematics (DeSalle et al., 2001); Proceedings of the 19<sup>th</sup> European Colloquium of Arachnology (Scharff & Toft, 2001); The Biology of Opiliones (Pinto-da-Rocha, Machado & Giribet, 2007); The Evolution of 'Primary' Sexual Characters in Animals (Leonard & Cordoba-Aguilar, 2008); Arachnids of the World (Beccaloni, 2008); Scorpions: On the Hunt (2008); Grzimek's Animal Life Encyclopedia (2009);

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Springer Handbook of Toxinology (Gopalakrishnakone, 2015); book proposal for the University of Arizona Press.

**Grants:** Australian Biological Resources Study; British Ecological Society; Czech Science Foundation; Fondo para la Investigación Científica y Tecnológica, Argentina; Fonds de la Recherche Scientifique, Belgium; National Geographic Society (Expedition Grants); National Research Foundation, South Africa; National Science Foundation, U.S.A. (panelist); Netherlands Organization for Scientific Research (Innovational Research Incentives Scheme); U.S.-Israel Binational Science Foundation (panelist); U.S. Fish and Wildlife Service.

**Evaluator:** Rating of South African scientists for National Research Foundation, South Africa (2008); referee for South African Council for Natural Scientific Professions (2012).

**Journals:** Acta Amazonica; Acta Zoologica; African Entomology; African Invertebrates; Amazoniana; American Museum Novitates; Animal Biology; Arachnologische Mitteilungen; Arachnology; Arnoldia Zimbabwe; Arthropod Structure and Development; BioInvasions Records; Biologia; Biota Colombiana; Biota Neotropica; BMC Evolutionary Biology; Canadian Journal of Zoology; Caribbean Journal of Science; Cimbebasia; Cladistics; Comptes Rendus Biologie; Conservation Biology; Current Opinion in Insect Science; Entomological News; Environmental Entomology; Fauna of Arabia; Frontiers in Zoology; Genetica; Insect Systematics and Evolution; International Journal of Modern Biological Research; International Journal of Tropical Insect Science; Invertebrate Systematics; Israel Journal of Zoology; Journal of Arachnology; Journal of Arid Environments; Journal of Biogeography; Journal of Ethology; Journal of Genetics; Journal of Insect Conservation; Journal of Insect Science; Journal of Morphology; Journal of Natural History; Journal of Threatened Taxa; Living World: Journal of the Trinidad and Tobago Field Naturalists Club; Molecular Ecology; Molecular Phylogenetics and Evolution; Natural History Magazine; North-Western Journal of Zoology; Organisms, Diversity and Evolution; Pakistan Journal of Zoology; Palaeontology; Palaeontologia Electronica; Pan-Pacific Entomologist; PLoS One; Proceedings of the National Academy of Sciences, USA; Revista Ibérica Aracnología; Revista Mexicana de Biodiversidad; Rivista Italiana di Paleontologia e Stratigrafia; Revue Suisse de Zoologie; Scientifica; Scientific Reports, Nature; Senckenbergiana biol.; Studies on Neotropical Fauna and Environment; Systematic Biology; Systematic Entomology; Terrestrial Arthropod Reviews; Texas Memorial Museum, Speleological Monographs; Texas Tech University, Occasional Papers of the Museum; Transactions of the Royal Society of Edinburgh: Earth and Environmental Science; Transactions of the Royal Society of South Africa; Turkish Journal of Zoology; ZooKeys; Zoologica Scripta; Zoological Journal of the Linnean Society; Zoologischer Anzeiger; Zoology; Zoosystema; ZOOTAXA.

### **Teaching and Mentoring**

**Postgraduate Teaching:** New Mexico State University, Las Cruces: Arthropod Diversity and Evolution (2002); AMNH, Richard Gilder Graduate School: Core Course in Systematic Biology (2008–2010): lectures covering Classification, Taxonomy, Nomenclature, PhyloCode, DNA Barcoding, Species Concepts, Reticulation, Phylogeography and Coalescence; Entomology Course, guest lecture (2012): 'Insect Relatives with Introduction to Chelicerata'. Ben-Gurion University of the Negev, Sede Boqer, Israel: Israel Taxonomy Initiative: Systematics and Diversity of Scorpions, with Introduction to the Israeli Fauna (2013), seven lectures ('The Fascinating World of Scorpions'; 'Collecting, Preserving and Documenting Scorpions for Systematics Research'; two lectures on 'Phylogeny and Classification of Scorpions'; 'Identification of Biological Taxa'; two lectures on 'Israeli Scorpion Fauna'; two afternoon practicals on how to identify scorpions and construct dichotomous identification keys, two nights of fieldwork (rocky and sandy desert habitats); and a final examination.

**Postdoctoral Fellows:** Erich S. Volschenk (2003–2006); Camilo I. Mattoni (2004–2006); Jose A. Ochoa Camara (2007–2009); Carsten Kamenz (2009–2011); H. Muhammad Tahir (2013–2014). Patricia Carrera, Cordoba University, Argentina (four months, 2009); Ricardo Botero-Trujillo (2018–).

**Major Advisor:** Ph.D.: Lauren Esposito, City University of New York (2004–2011); Edmundo González Santillan, City University of New York (2005–2012); Lionel Monod, City University of New York (2005–2011); Stephanie Loria, Richard Gilder Graduate School, AMNH (2011–2015). M.S.: Jayson Slovak, City University of New York (2016–).



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**External Examiner:** Ph.D.: Erich S. Volschenk, Curtin University of Technology, Perth, Australia (2002); Rabia Yaqoob, University of Sargodha, Pakistan (2015); Imtiaz Alam, University of the Punjab, Lahore, Pakistan (2017).

**Committees:** Ph.D.: Joyce Fassbender, City University of New York (2004–2008); Tharina Bird, Colorado State University (2008–2014); Ed Stanley, Richard Gilder Graduate School (RGGS), AMNH (2010–2011); Ansel Payne, RGGS (2011–2012); Bernardo Santos, RGGS (2013–2016); Jeremy Frank, RGGS (2015–). M.S.: Sonia Maartens, University of Pretoria, South Africa (2007–2008); Samuel Mwangi, Africa Nazarene University, Nairobi, Kenya (2007–2008), West Texas A&M University (2015–2016); Jessica Azzinari, West Texas A&M University (2015–2016).

**Visiting Students:** Undergraduate: Samuel Mwangi, National Museums of Kenya, Nairobi (8 weeks, 2005). M.S.: Lionel Monod, University of Geneva, Switzerland (4 weeks, 2002); Christina Bisulca, University of Delaware (6 months, 2003–2004); Alfonso Ballesteros Chavez, UNAM, Mexico (8 weeks, 2008); Stephan Schaffrath, University of Cologne, Germany (3 months, 2013–2014); Samuel Mwangi, West Texas A&M University (4 weeks, 2016). Ph.D.: Valerio Vignoli, University of Siena, Italy (8 weeks, 2004; 8 weeks, 2006); Christian Wirkner, Humboldt University, Berlin, Germany (12 weeks, 2004); Andres Ojanguren Affilastro, Museo Argentino de Ciencias Naturales 'Bernardino Rivadavia' (MACN), Buenos Aires (6 weeks, 2005; 6 weeks, 2007); Alexander V. Gromov, Institute of Zoology, Almaty, Kazakhstan (3 months, 2007); Carsten Kamenz, Humboldt University, (12 weeks, 2005–2006; 8 weeks, 2008); Humberto Yamaguti, Universidade São Paulo, Brazil (5 months, 2009; 1 month, 2010); Carlos Santibañez-López, UNAM, Mexico (2 weeks, 2009; 4 months, 2011, 1 month, 2012; 1 month, 2014); Tharina Bird, Colorado State University, Fort Collins (3 months, 2009; 4 months, 2010–2011; 6 months, 2012); Rene Barba, Instituto de Ecología y Sistemática, Havana, Cuba (3 weeks, 2012); Roberta Engel, University of Connecticut, Storrs (several days, 2012); David Vrech, Universidad Nacional de Córdoba, Argentina (1 month, 2012); Rodrigo Monjaraz-Ruedas, UNAM, Mexico (1 month, 2014, 1 month, 2016, 2 months, 2017); Daniela Ramírez, UNAM, Mexico (2 weeks, 2014); Gustavo de Miranda, Copenhagen Museum, Denmark (1 week, 2014; 3 months, 2015); Ingrid Catalina-Ortiz, Universidad Nacional de Colombia, Bogotá (10 days, 2015); Bastian Klussmann-Fricke, Rostock University, Germany (2 months, 2015); Gerardo Contreras-Felix, UNAM, Mexico (1 month, 2015, 3 months, 2016, 2 months, 2017); Rebecca Godwin, Auburn University, AL (1 week, 2016); Diego Barrales Alcalá, UNAM, Mexico (2 months, 2016); Ricardo Botero-Trujillo, MACN, Buenos Aires (2.5 months, 2016); Francisco J. Salgueiro Sepulveda, Facultad de Ciencias, UNAM, Mexico (2 weeks, 2016); Dulce F. Piedra, UNAM, Mexico (2 weeks, 2016); Fabio Akashi Hernandez, São Paulo State University (UNESP) (2008, 2016); Jesus A. Cruz López, UNAM, Mexico (1 week, 2017); Shlomo Cain, University of Haifa, Oranim, Israel (2.5 months, 2018).

**Undergraduate Interns:** NSF-funded summer Research Experiences for Undergraduates (REU) program, AMNH: Lauren Esposito, University of Texas, El Paso (2002); Samara Maaliki, City University of New York (2003) [joint UMEB (Undergraduate Mentoring in Evolutionary Biology) program]; Michelle McCoy, University of North Carolina (2004); Kanvaly Ben Bamba, Yale University (2004); Steve Webb, Muhlenberg College (2005); Sarah Schoenbrun, Brown University (2007); Margaret Rubin, Oberlin College (2016). Other: Gena Esposito, University of Texas, El Paso (2007); Angela Holuba, Barnard College, New York (2008); Sylvia Johnson, Barnard College, New York (2008); Michelle Yun, York College, New York (2010); Diogo Castellato, Federal University of Rio de Janeiro and Baruch College, Brazil Scientific Mobility Program of the Institute for International Education (2015–2016); Deborah Chin, Fairleigh Dickinson University (2016, 2017).

**High-school Interns:** NSF-funded After-School Centers in Exploration and New Discovery (ASCEND) program, AMNH: Adrian Tung (1998); Brian Webster (1999); Bernard Laszczower (2003–2004); Boitumelo McCallum (2003–2004). AMNH High School Science Research Program in Biodiversity: Connie Cai (2004–2005); Melanie Ng (2004–2005); JianHua Lin (2006–2007); Qiao Rong Huang (2006–2007); Eleanor Goetz and Sasha Reiter (2013–2014). AMNH Lang Science Program: Sofia Castro and Geeta Sharma (2017). Other: Michelle Bayefsky-Anand (2008); Adam Getzler (2011); Massimiliano Roppo (2013); Billy Conlan (2015); Chelsea Silva (2015, 2016); Tamar Cohen (2017).

## ***Curriculum Vitae: Lorenzo Prendini, Ph.D.***

### **Molecular Systematics Laboratory**

University of Cape Town (1996); American Museum of Natural History (1997–2000, 2002–); University of Michigan, Ann Arbor (1999). NGS (Anchored Hybrid Enrichment), collaboration with Florida State University (2016–).

### **Fieldwork**

Angola (2015), Argentina (2003), Botswana (2011), Chile (2003), Djibouti (2017), Ethiopia (2018), Israel (2011, 2013), Jordan (2013), Kazakhstan (2003), Laos (2012, twice), Malawi (2007, 2018), Malaysia (2013), Mexico (2002, 2005), Mozambique (2007), Namibia (1996/1997, 1999, 2003/2004, 2006–2010 annually, 2015), Oman (2017), Pakistan (2012), Puerto Rico (2009), South Africa (1989–2000 annually, 2003–2017 annually), Swaziland (2001), Tanzania (2015), Trinidad and Tobago (1999), Tunisia (2017), U.S.A. (AZ, CA, NM, NV, TX) (1997, 2002, 2005, 2007, 2012), U.S. Virgin Islands (2009), Uzbekistan (2003), Venezuela (2009), Vietnam (2012, twice), Zimbabwe (2013). Twenty-nine years (1989–) in southern Africa. Field trips (e.g. the Namib, Kalahari, Kaokoveld, Richtersveld and Sperrgebiet) required proficiency in off-road driving with a 4x4, and complete self-sufficiency (all necessary fuel and water had to be brought, in addition to standard supplies). Two 5-day hikes to survey scorpion fauna of Brandberg Massif, which involved carrying all supplies and water in a 40 kg backpack (2004, 2006). Hiked up El Tucuche, Trinidad (1999) and Auyan Tepui, Venezuela (2009). 4-day kayak trip through Xe Bang Fai River Cave, Laos (2012). Six-day hike to summit of Mount Mulanje, Malawi (2018). A collection of ca. 8,000 scorpion specimens, accumulated during six years' collecting in southern Africa, was disseminated to various southern African, North American, and European museums; collections enlarged annually at the AMNH since 2002.

### **Collections**

Since 1995, the following collections visited, besides the AMNH: Albany Museum, Grahamstown; California Academy of Sciences, San Francisco; Field Museum of Natural History, Chicago; Forschungsinstitut und Natur-Museum Senckenberg, Frankfurt; Institute of Fundamental Studies, Kandy; Manuel A. González-Sponga Collection, Caracas; McGregor Museum, Kimberley; Musée Royal de l'Afrique Centrale, Tervuren; Museum National d'Histoire Naturelle, Paris; Museum of Comparative Zoology, Harvard University, Cambridge, MA; Natal Museum, Pietermaritzburg; National Collection of Insects and Arachnids, Pretoria; National Museum of Namibia, Windhoek; National Museum of Natural History, Smithsonian Institution, Washington, DC; National Museum, Bloemfontein; Natural History Museum of Zimbabwe, Bulawayo; South African Museum, Cape Town; Natural History Museum, London; Oxford University Museum of Natural History, U.K.; Pakistan Museum of Natural History, Islamabad; Transvaal Museum, Pretoria; Zoologisch Museum, Universiteit van Amsterdam; University of Puerto Rico, Rio Piedras; Zoologisches Forschungsinstitut und Museum Alexander Koenig, Bonn; Zoologisches Institut und Zoologisches Museum, Universität Hamburg; Zoologisches Museum, Universität Humboldt, Berlin. Material loaned from a further 16 collections. Curated, sorted, identified and partially digitized African scorpion collections (1995–2001, 2004, 2009, 2010, 2012–2015): McGregor Museum, Kimberley; Natal Museum, Pietermaritzburg; National Collection of Arachnida, Plant Protection Research Institute, Pretoria; National Museum, Bloemfontein; National Museum of Namibia, Windhoek; South African Museum, Cape Town; Transvaal Museum, Pretoria. Arranged purchase of Alexis Harington Scorpion Collection (ca. 6,500 specimens) by the AMNH (2002) and currently oversee curation of arachnid and myriapod collections in the AMNH (2002–). Started and continue to enlarge the world's only synoptic collection of scorpion tissues at the Ambrose Monell Collection for Molecular and Microbial Research of the AMNH (1999–): ca. 20,000 tissue samples and associated vouchers, acquired by personal collections and donations from colleagues.

### **Exhibitions**

At AMNH, contributed images and reviewed copy on UV fluorescence, SEM and CT to *Picturing Science: Museum Scientists and Imaging Technologies* (2011); provided images and reviewed copy for *Creatures of Light* (2011) and *Spiders Alive!* (2012); co-curated *Spiders Alive!* (2015).

### **Interests**

## ***Curriculum Vitae: Lorenzo Prendini, Ph.D.***

Lorenzo Prendini's research program emphasises systematics, collections-based research and fieldwork. His primary research interests lie in the empirical study of phylogeny, macroevolution, speciation, biogeography, and comparative evolutionary biology, using scorpions and minor arachnid orders (specifically Amblypygi, Solifugae, Schizomida and Thelyphonida) as model organisms. Major research interests are: higher phylogeny and classification of scorpions; revisionary systematics of scorpions; phylogeny and classification of minor arachnid orders; systematic theory and practice; adaptation and biogeography of arachnids; distribution and conservation; evolution of insect-plant associations.

### **Biography**

Dr Lorenzo Prendini curates the collections of Arachnida and Myriapoda at the AMNH, where he has worked for fifteen years. His research addresses the systematics, biogeography, and evolution of scorpions and lesser known arachnid orders (whip spiders, camel spiders and whip scorpions) using a combination of morphological, molecular, and distributional data, and diverse analytical tools. Current research on scorpions is focused in three areas: reconstructing the phylogeny and revising the contentious suprageneric classification of scorpions; systematic revisions of Afrotropical, New World, and Australasian scorpion families; testing adaptational and biogeographical hypotheses in sub-Saharan Africa. The search for interesting arachnids has taken Prendini and his research group to more than 30 countries on all continents except Antarctica. Besides arachnids, Prendini is interested in the evolution of insect-plant associations and in theoretical issues concerning the phylogenetic analysis of morphological data.