

**LORENZO PRENDINI**  
ASSISTANT CURATOR  
DIVISION OF INVERTEBRATE ZOOLOGY  
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**HIGHEST DEGREE EARNED**

Ph.D.

**AREA OF SPECIALIZATION**

Empirical study of phylogeny, macroevolution, speciation, biogeography, and comparative evolutionary biology, using scorpions and minor arachnid orders as model organisms.

**EDUCATIONAL EXPERIENCE**

Ph.D. in Zoology, University of Cape Town, South Africa, 1996–2001  
B.Sc. (Hons) in Zoology, University of Cape Town, South Africa, 1995  
B.Sc. in Botany and Zoology, University of the Witwatersrand, Johannesburg, South Africa, 1992–1994

**PREVIOUS EXPERIENCE IN DOCTORAL EDUCATION**

FACULTY APPOINTMENTS

Adjunct Professor, Department of Biology, City University of New York, 2003–present.  
Adjunct Professor, Department of Entomology, Cornell University, 2004–present.

GRADUATE COMMITTEES

Tharina Bird, Colorado State University, 2008–present  
Sonia Maartens, University of Pretoria, 2007–present  
Samuel Mwangi, Africa Nazarene University, Nairobi, 2007–present  
Humberto Yamaguti, Universidade São Paulo, 2006–present  
Andres Ojanguren Affilastro, Museo Argentino de Ciencias Naturales, Buenos Aires, 2003–present  
Joyce Fassbender, City University of New York, 2004–present

GRADUATE ADVISEES

Lionel Monod, City University of New York, 2005–present  
Edmundo González Santillan, City University of New York, 2005–present  
Lauren Esposito, City University of New York, 2004–present

**RESEARCH GRANT SUPPORT**

FEDERAL SOURCES

National Science Foundation, “Assembling the Tree of Life: Phylogeny of Spiders,” Co-PI (with W.C. Wheeler, J.A. Coddington, G. Hormiga and P. Sierwald), \$2,700,000, 2002–2006

National Science Foundation, “REVSYS: Revisionary Systematics of the North American Scorpion Family Vaejovidae,” PI (with W.D. Sissom), \$414,578, 2004–2008.

National Science Foundation, “Collaborative Research: Global Survey and Inventory of Solifugae,” Co-PI (with P.E. Cushing) \$649,984, 2007–2011.

#### NON-FEDERAL SOURCES

Stavros Niarchos Foundation, Constantine S. Niarchos Expedition grant for expedition to the Damaraland and Kaokoveld, Namibia, \$7,000, 2003.

Constantine S. Niarchos Expedition grant for expedition to Malawi, Mozambique, Namibia and South Africa, \$7,000, 2007.

Richard Lounsbery Foundation, Co-PI (with M.E. Siddall and R. DeSalle) “DNA barcoding project and DNA Exhibition Feasibility Study,” \$325,000, 2004–2007.

Australian Biological Resources Study, Co-PI (with E.S. Volschenk and M. Harvey) “Revision and Phylogeny of the Australian scorpion genus *Urodacus* Peters (Scorpiones),” (AU\$181,135), 2006–2009.

#### RECENT ARTICLES IN REFEREED JOURNALS

Vignoli, V. and L. Prendini. (in press). Systematic revision of the troglomorphic scorpion subfamily Typhlochactinae (Chactoidea: Superstitioniidae). *American Museum Novitates*.

Volschenk, E.S., C.I. Mattoni, and L. Prendini. (in press). Comparative anatomy of the mesosomal organs of scorpions (Chelicerata, Scorpiones), with implications for the phylogeny of the order. *Zoological Journal of the Linnean Society*.

Francke, O.F. and L. Prendini. (in press). Phylogeny and classification of the giant hairy scorpions, *Hadrurus* Thorell (Iuridae Thorell): A reappraisal. *Systematics and Biodiversity*.

Volschenk, E.S. and L. Prendini. (in press). *Aops oncodactylus* gen. et sp. nov., the first troglobitic urodacid (Chelicerata: Scorpiones), with a re-assessment of cavernicolous, troglobitic and troglomorphic scorpions. *Invertebrate Systematics*.

Kamenz, C. and L. Prendini. (in press). An atlas of book lung ultrastructure in the Order Scorpiones (Arachnida). *Bulletin of the American Museum of Natural History*.

Vignoli, V. and L. Prendini. (in press). A new species of *Akentrobuthus* Lamoral, 1976 (Scorpiones: Buthidae) from the Republic of Benin. *Journal of Afrotropical Zoology*.

Dunlop, J.A., O.E. Tetlie, and L. Prendini. (in press). Reinterpreting the Silurian scorpion *Proscorpius osborni* (Whitfield, 1885): Integrating data from Palaeozoic and Recent scorpions. *Palaeontology*.

Baldo, L., L. Prendini, A. Corthals, and J. Werren. 2007. *Wolbachia* are present in southern African scorpions and cluster with supergroup F. *Current Microbiology* 55: 367–373.

Ojanguren Affilastro, A.A., C.I. Mattoni, and L. Prendini. 2007. The genus *Brachistosternus* (Scorpiones: Bothriuridae), in Chile, with descriptions of two new species. *American Museum Novitates* 3564: 1–44.

Ramírez, M.J., J.A. Coddington, W.P. Maddison, P. Midford, L. Prendini, J. Miller, C.E. Griswold, G. Hormiga, P. Sierwald, N. Scharff, S.P. Benjamin, and W.C.

- Wheeler. 2007. Linking of digital images to phylogenetic data matrices using a morphological ontology. *Systematic Biology* 56: 283–294.
- Wirkner, C.S., and L. Prendini. 2007. Comparative morphology of the hemolymph vascular system in scorpions – a survey using corrosion casting, MicroCT and 3D-reconstruction. *Journal of Morphology* 268: 401–413.
- Prendini, L. 2006. New South African flat rock scorpions (Liochelidae: *Hadogenes*). *American Museum Novitates* 3502: 1–32.
- Prendini, L., E.S. Volschenk, S. Maaliki, and A.V. Gromov. 2006. A ‘living fossil’ from Central Asia: the morphology of *Pseudochactas ovchinnikovi* Gromov, 1998 (Scorpiones: Pseudochactidae), with comments on its phylogenetic position. *Zoologische Anzeiger* 245: 211–248. [cover article]
- Prendini, L., P. Weygoldt, and W.C. Wheeler. 2005. Systematics of the *Damon variegatus* group of African whip spiders (Chelicerata: Amblypygi): Evidence from behaviour, morphology and DNA. *Organisms, Diversity and Evolution* 5: 203–236. [cover article]
- Prendini, L. and W.C. Wheeler. 2005. Scorpion higher phylogeny and classification, taxonomic anarchy, and standards for peer review in online publishing. *Cladistics* 21(5): 446–494.
- Prendini, L. 2005. On *Hadogenes angolensis* Lourenço, 1999 syn. n. (Scorpiones, Liochelidae), with a redescription of *H. taeniurus* (Thorell, 1876). *Revue suisse de Zoologie* 112(2): 1–28.
- Prendini, L. 2005. Comment on “Identifying spiders through DNA barcodes”. *Canadian Journal of Zoology* 83(3): 481–491.
- Prendini, L. 2005. New records and observations on the natural history of *Lisposoma elegans* and *Lisposoma josehermana* (Scorpiones: Bothriuridae). *American Museum Novitates* 3487: 1–11.
- Prendini, L. 2005. Revision of *Karasbergia* Hewitt (Scorpiones: Buthidae), a monotypic genus endemic to southern Africa. *Journal of Afrotropical Zoology* 1: 77–93.
- Prendini, L. 2004. The systematics of southern African *Parabuthus* Pocock (Scorpiones, Buthidae): Revisions to the taxonomy and key to the species. *Journal of Arachnology* 32(1): 109–186.
- Prendini, L. 2004. Systematics of the genus *Pseudolychas* Kraepelin (Scorpiones: Buthidae). *Annals of the Entomological Society of America* 97(1): 37–63.
- Prendini, L. 2003. Revision of the genus *Lisposoma* Lawrence, 1928 (Scorpiones: Bothriuridae). *Insect Systematics and Evolution* 34: 241–264.
- Prendini, L. 2003. Discovery of the male of *Parabuthus muelleri*, and implications for the phylogeny of *Parabuthus* (Scorpiones: Buthidae). *American Museum Novitates* 3408: 1–24.
- Prendini, L., Crowe, T.M. and Wheeler, W.C. 2003. Systematics and biogeography of the family Scorpionidae Latreille, with a discussion of phylogenetic methods. *Invertebrate Systematics* 17(2): 185–259. [cover article]
- Prendini, L. 2003. A new genus and species of bothriurid scorpion from the Brandberg Massif, Namibia, with a reanalysis of bothriurid phylogeny and a discussion of the phylogenetic position of *Lisposoma* Lawrence. *Systematic Entomology* 28(2): 149–172.
- Dyason, K., Brandt, W., Prendini, L., Verdonck, F., Tytgat, J., Du Plessis, J., Müller, G.

- and Van der Walt, J. 2002. Determination of species-specific components in the venom of *Parabuthus* scorpions from southern Africa using matrix-assisted laser desorption time-of-flight mass spectrometry. *Rapid Communications in Mass Spectrometry* 16: 768–773.
- Prendini, L. 2001. Further additions to the scorpion fauna of Trinidad and Tobago. *Journal of Arachnology* 29(2): 173–188.
- Prendini, L. 2001. Two new species of *Hadogenes* (Scorpiones, Ischnuridae) from South Africa, with a redescription of *Hadogenes bicolor* and a discussion on the phylogenetic position of *Hadogenes*. *Journal of Arachnology* 29(2): 146–172.
- Prendini, L. 2001. Species or supraspecific taxa as terminals in cladistic analysis? Groundplans versus exemplars revisited. *Systematic Biology* 50(2): 290–300.
- Prendini, L. 2001. Phylogeny of *Parabuthus* (Scorpiones, Buthidae). *Zoologica Scripta* 30(1): 13–35.
- Prendini, L. 2001. A review of synonyms and subspecies in the genus *Opisthophthalmus* C.L. Koch (Scorpiones: Scorpionidae). *African Entomology* 9(1): 17–48.

#### **SPECIAL RECOGNITION/AWARDS**

**Corporate Sector, South Africa:** Anglo-American Corporation Open Scholarship Book Prize (1992). Standard Bank of South Africa Scholarship (1992–1994). The Premier Group Bursary (1992–1994). Skye Foundation and Charitable Trust Scholarship (2000). Foundation for Research Development, South Africa: B.Sc. Bursary (1992–1994). B.Sc. (Hons) Bursary (1995). M.Sc. Bursary (1996). Prestigious Bursary for M.Sc. (1997). Prestigious Bursary for Ph.D. (1998, 1999).

**University of the Witwatersrand:** Certificates of Merit in Zoology I and Botany I (1992), Zoology II and Botany II (1993), and Zoology III and Botany III (1994). S.A. Breweries Bronze Medal (1992); S.A. Breweries Silver Medal (1993); S.A. Breweries Gold Medal (1994). Peter Thompson Book Prize (1993). Tree Society of Southern Africa Book Prize (1993). Peter Thompson Book Prize (1994). John Twinch Memorial Prize, Botanical Ecology (1994). Zoological Society of Southern Africa Award (1994).

**University of Cape Town:** Wayne Rendell Memorial Award (1995). Purcell Memorial Prize (1995, for B.Sc. Honours thesis). Zoological Society of Southern Africa Award (1995). Myer Levinson (EMDIN) Scholarship (1996, 1997). S.A. College Croll Scholarship (1996, 1997). Purcell Memorial Prize (2002, for Ph.D. thesis).

**Oral Presentations:** Best speaker, 5th International Colloquium of the Research Group for the Study of African Arachnids, Klein Kariba, Warmbaths, South Africa, 24–29 November 1996. Best speaker, 6th International Conference of the African Arachnological Society, Swakopmund, Namibia, 19–23 April 1999.