

**JAMES MICHAEL CARPENTER**  
CURATOR AND PROFESSOR  
DIVISION OF INVERTEBRATE ZOOLOGY

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**HIGHEST DEGREE EARNED**

Ph.D.

**AREA OF SPECIALIZATION**

Phylogenetic relationships, taxonomy and behavior of Hymenoptera, especially Vespidae  
Cladistic theory; quantitative phylogenetic methods; applications of cladistic analysis

**EDUCATIONAL EXPERIENCE**

Ph.D. in Entomology, Cornell University, 1977-1983

B.S. in Entomology, Michigan State University, 1974-1977

**PREVIOUS EXPERIENCE IN DOCTORAL EDUCATION**

FACULTY APPOINTMENTS

Adjunct Professor, City College of New York (1996-present)

Adjunct Professor, Department of Entomology, Cornell University (1995-2011)

Assistant Professor of Biology, Harvard University, and Assistant Curator in  
Entomology, Museum of Comparative Zoology (1984-1988); Associate Professor  
and Curator (1988-1991)

COURSES TAUGHT

Phylogenetic Analysis: Theory and Practice, International Workshop, Průhonice, Czech  
Republic, September 4-7, 2006

Análisis Filogenética: Teoría y Práctica, International Workshop, Tucumán, March 11-  
15, 2002

Cladistics, Graduate level, Harvard University, 1985-1991

Introduction to Insect Evolution and Diversity, Undergraduate level, Harvard University,  
1985-1991

Quantitative Systematics, Graduate level, Harvard University, 1985-1991

Principles of Biodiversity, Undergraduate level, Harvard University, 1985-1991

GRADUATE ADVISEES

Carly Tribull, Richard Gilder Graduate School

Ansel Payne, Richard Gilder Graduate School

Roberto Keller, Department of Entomology, Cornell University/American Museum of  
Natural History

Christine Johnson, Hunter College, City University of New York

Marc Allard, Department of Organismal and Evolutionary Biology, Harvard University

Gabriela Chavarría, Department of Organismal and Evolutionary Biology, Harvard  
University

GRADUATE COMMITTEES

Phil Barden, Richard Gilder Graduate School

Roberto Keller, Department of Entomology, Cornell University/American Museum of

Natural History  
Ted Schultz, Department of Entomology, Cornell University  
Karen Sime, Department of Entomology, Cornell University  
Christine Johnson, Hunter College, City University of New York  
Ellen Zimmerli, Hunter College, City University of New York  
Ines Horowitz, Department of Ecology and Evolution, State University of New York at  
Stony Brook  
Glenn Adelson, Department of Organismal and Evolutionary Biology, Harvard  
University  
Marc Allard, Department of Organismal and Evolutionary Biology, Harvard University  
Gabriela Chavarría, Department of Organismal and Evolutionary Biology, Harvard  
University  
David Maddison, Department of Organismal and Evolutionary Biology, Harvard  
University  
Santiago Madriñan, Department of Organismal and Evolutionary Biology, Harvard  
University  
Mark Moffett, Department of Organismal and Evolutionary Biology, Harvard University  
William Piel, Department of Organismal and Evolutionary Biology, Harvard University  
Kenneth Rice, Department of Organismal and Evolutionary Biology, Harvard University  
Mark Skinner, Department of Organismal and Evolutionary Biology, Harvard University  
Elizabeth Taylor, Department of Organismal and Evolutionary Biology, Harvard  
University  
Leanne Tennant, Department of Organismal and Evolutionary Biology, Harvard  
University  
John Tobin, Department of Organismal and Evolutionary Biology, Harvard University  
Ward Wheeler, Department of Organismal and Evolutionary Biology, Harvard University

#### **RESEARCH GRANT SUPPORT (2003-2008)**

National Science Foundation Grant DEB-0843505: “Taxonomy, Phylogenetics,  
Behavior And Proteomics Of The Social Wasp Superorganisms (Hymenoptera:  
Vespidae; Vespinae))”, 2009-2012; Co-PI with Kurt Pickett and Bryan Balliff  
National Science Foundation, “Phylogeny of the New World *Polistes* (Hymenoptera:  
Vespidae; Polistinae, *Polistes*, *Aphanilopterus*) based on combined  
morphological, molecular and behavioral evidence”, 2006-2009; Co-PI with Kurt  
Pickett and Ward Wheeler  
National Science Foundation, Curation of the Wasp Nest Collection of the American  
Museum of Natural History, \$237,629, March 15, 2005-February 28, 2007.  
National Science Foundation, AToL: Collaborative Research: Large-scale Phylogeny of  
Hymenoptera, \$584,612, December 1, 2003-November 30, 2009.

#### **RECENT ARTICLES IN REFEREED JOURNALS (2006-2011)**

Carpenter, J. M. and E. P. Perera. 2006. Phylogenetic relationships among yellowjackets  
and the evolution of social parasitism. *American Museum Novitates* 3507: 1-19.  
Nguyen, L. P. T., J. Kojima, F. Saito and J. M. Carpenter. 2006. Vespidae (Hymenoptera)  
of Vietnam 3: Synoptic key to the Vietnamese species of the polistine genus  
*Ropalidia*, with notes on taxonomy and distribution. *Entomological Science* 9  
(1): 93-107.  
Nguyen, L. P. T., F. Saito, J. Kojima and J. M. Carpenter. 2006. Vespidae of Viet Nam  
(Insecta: Hymenoptera) 2. Taxonomic notes on Vespinae. *Zoological Science* 23:  
95-104.  
Sarmiento, C. E. and J. M. Carpenter. 2006. Familia Vespidae. In Fernández, F. and M. J.

- Sharkey (eds.), *Introducción a los Hymenoptera de la Región Neotropical*: 539-556. Sociedad Colombiana de Entomología y Universidad Nacional de Colombia, Bogotá.
- Saito, F., L. P. T. Nguyen, J. M. Carpenter and J. Kojima. 2006. A new *Eustenogater* species (Hymenoptera: Vespidae; Stenogastrinae), the first hover wasp known to overwinter on the nest. *American Museum Novitates* 3534: 1-11.
- Carpenter, J. M., B. R. Garcete-Barrett and M. G. Hermes. 2006. Catalog of the Neotropical Masarinae. *Revista Brasileira de Entomologia* 50 (3): 335-340.
- West-Eberhard, M. J., J. M. Carpenter and P. E. Hanson. 2006. Familia Vespidae. In Hanson, P. E. and I. D. Gauld, Hymenoptera de la Región Neotropical. *Memoirs of the American Entomological Institute* 77: 617-644.
- Pickett, K. M., J. M. Carpenter and W. C. Wheeler. 2006. Systematics of *Polistes* (Hymenoptera: Vespidae), with a phylogenetic consideration of Hamilton's haplodiploidy hypothesis, *Annales Zoologici Fennici* 43: 390-406.
- Andena, S. R., F. B. Noll and J. M. Carpenter. 2007. Phylogenetic analysis of the Neotropical social wasps of the genus *Angiopolybia* Araujo, 1946 (Hymenoptera, Vespidae, Epiponini). *Zootaxa* 1427: 57-64.
- Andena, S. R., F. B. Noll, J. M. Carpenter and R. Zucchi. 2007. Phylogenetic analysis of the Neotropical *Pseudopolybia* de Saussure, 1863, with description of the male genitalia of *Pseudopolybia vespiceps* (Hymenoptera: Vespidae, Epiponini). *American Museum Novitates* 3586: 1-11.
- Goloboff, P. A., J. M. Carpenter, J. Salvador Arias and Daniel R. Miranda Esquivel. 2008. Weighting against homoplasy improves phylogenetic analysis of morphological data sets. *Cladistics* 24: 24: 758-773.
- Carpenter, J. M. 2008. Review of the Hawaiian Vespidae (Hymenoptera). *Bishop Museum Occasional Papers* 99: 1-18.
- Ebrahimi, E. and J. M. Carpenter. 2008. Catalog of the vespid wasps of Iran (Hymenoptera, Vespidae). *Zootaxa* 1785: 1-42.
- Dvořák, L. and J. M. Carpenter. 2008. The first record of the paper wasp *Polistes smithii neavei* von Schulthess, 1921, from the Middle East (Hymenoptera: Vespidae: Polistinae), with notes on the social wasp fauna of Yemen. *Zoology in the Middle East* 44: 119-120.
- Carpenter, J. M. and L. S. Kimsey. 2009. The genus *Euparagia* Cresson (Hymenoptera: Vespidae; Euparagiinae). *American Museum Novitates* 3643: 1-11.
- Corbara, B., J. M. Carpenter, R. Céréghino, M. Leponce, M. Gibernau and A. Dejean. 2009. Diversity and nest site selection of social wasps along Guianese forest edges: assessing the influence of arboreal ants. *Comptes rendus Biologies* 332: 470-479.
- Andena, S. R., F. B. Noll and J. M. Carpenter. 2009. Cladistic analysis of *Charterginus* Fox, 1898 (Hymenoptera, Vespidae, Epiponini). A neotropical genus of social wasps. *Journal of Natural History* 43 (19-20): 1183-1193.
- Andena, S. R., J. M. Carpenter and F. B. Noll. 2009. A phylogenetic analysis of *Synoeca* de Saussure, 1852, a neotropical genus of social wasps (Hymenoptera: Vespidae: Epiponini). *Entomologica Americana* 115 (1): 81-89.
- Carpenter, J. M., J. H. Hunt and J. E. Strassmann. 2009. *Mischocyttarus mexicanus cubicola*: Major extension of its range to Texas (Hymenoptera: Vespidae). *Entomologica Americana* 115 (1): 95-96.
- Carpenter, J. M., J. Gusenleitner and M. Madl. 2009. A catalogue of the Eumeninae (Hymenoptera: Vespidae) of the Ethiopian Region excluding Malagasy Subregion. Part I: Introduction, Key to Genera, Genera *Aethiopicodynerus* GUSENLEITNER 1997 to *Cyrtolabulus* van der VECHT 1969. *Linzer*

- Biologische Beiträge* 41 (1): 513-638.
- Andena, S. R., J. M. Carpenter and K. M. Pickett. 2009. Phylogenetic analysis of species of the neotropical social wasp genus *Epipona* Latreille, 1802 (Hymenoptera: Vespidae; Polistinae, Epiponini). *Zookeys* 20: 385-398.
- Carpenter, J. M. and A. R. Davidson. 2009. Rediscovery of the Australian pollen wasp *Metaparagia doddi* (Hymenoptera: Vespidae; Masarinae). *American Museum Novitates* 3664: 1-6.
- Carpenter, J. M. 2009. *Vespula rufosignata* Eck, a synonym of *Vespula vulgaris* (Linnaeus) (Hymenoptera: Vespidae, Vespinae). *Boletín de la Sociedad Entomológica Aragonesa* 45: 292.
- Carpenter, J. M. and M. Madl. 2009. A catalogue of the Vespidae of the Malagasy Subregion (Insecta, Hymenoptera). *Linzer Biologische Beiträge* 41 (2): 1871-1935.
- Pickett, K. M., J. M. Carpenter and A. Dejean. 2009. "Basal" but not primitive: the nest of *Apoica arborea* de Saussure (Hymenoptera: Vespidae; Polistinae). *Zoosystema* 31 (4): 945-948.
- Dejean, A., J. M. Carpenter, M. Gibernau, M. Leponce and B. Corbara. 2010. Nest relocation and high mortality rate in a Neotropical social wasp: Impact of an exceptionally rainy La Niña year. *Comptes rendus Biologies* 333: 35-40.
- Safarek, G., O. Jovanovic, M. Vences, H. Kurrer, J. M. Carpenter and R. Dolch. 2010. Wasp predation on Malagasy frog egg clutches. *Salamandra* 46 (1): 53-54.
- Pickett, K. M. and J. M. Carpenter. 2010. Simultaneous analysis and the origin of eusociality in the Vespidae (Insecta: Hymenoptera). *Arthropod Systematics and Phylogeny* 68 (1): 3-33.
- West-Eberhard, M. J., J. M. Carpenter, L. F. F. Gelin and F. B. Noll. 2010. *Chartergellus golfitensis* West-Eberhard: a new species of Neotropical swarm-founding wasp (Hymenoptera: Vespidae, Polistinae) with notes on the taxonomy of *Chartergellus zonatus* Spinola. *Journal of Hymenoptera Research* 19 (1): 84-93.
- Carpenter, J. M. and T. R. Glare. 2010. Misidentification of *Vespula alascensis* as *V. vulgaris* in North America (Hymenoptera: Vespidae; Vespinae). *American Museum Novitates* 3690: 1-7.
- Dvořák, L. and J. M. Carpenter. 2010. New records of vespid wasps from Yemen with synonymy in *Belonogaster* (Hymenoptera: Vespidae: Polistinae and Eumeninae). *Linzer Biologische Beiträge* 42 (1): 561-563.
- Carpenter, J. M., J. Gusenleitner and M. Madl. 2010. A catalogue of the Eumeninae (Hymenoptera: Vespidae) of the Ethiopian Region excluding Malagasy Subregion. Part II: Genera *Delta* de Saussure 1885 to *Zethus* Fabricius 1804 and species incertae sedis. *Linzer Biologische Beiträge* 42 (1): 95-315.
- Roskens, V. A., J. M. Carpenter, K. M. Pickett and B. A. Ballif. 2010. Preservation of field samples for enzymatic and proteomic characterization: analysis of proteins from the trophallactic fluid of hornets and yellowjackets. *Journal of Proteome Research* 9: 5484-5491.
- Carpenter, J. M., J. Gusenleitner and M. Madl. 2010. A catalogue of the Eumeninae (Hymenoptera: Vespidae) of the Ethiopian Region excluding Malagasy Subregion. Part III: Classification, additions, corrections and index. *Linzer Biologische Beiträge* 42 (2): 919-1004.

Carpenter, J. M., L. Dvořák, J. Kojima, L. T. P. Nguyen, A. Perrard and K. M. Pickett.  
2011. Taxonomic notes on the Vespinae of Yunnan (Hymenoptera: Vespidae).  
*American Museum Novitates* 3709: 1-10.

**SPECIAL RECOGNITION/AWARDS**

Japan Society for the Promotion of Science Invitation Fellowship for Research in Japan,  
July-August 2007

Honorary Fellow, California Academy of Sciences, July 2004

Japan Society for the Promotion of Science Invitation Fellowship for Research in Japan,  
July 2000

Smithsonian Postdoctoral Fellowship, 1983-1984

Graduate Fellowship, Cornell University, 1982

National Science Foundation Graduate Fellowship, 1977-1980