

Curriculum Vitae, August 2011

**Terrence P. McGlynn**

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College of Natural and Behavioral Sciences  
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Academic appointments

Associate Professor of Biology, California State University Dominguez Hills	2010-current
Research Associate, Occidental College	2007-current
Assistant Professor of Biology, California State University Dominguez Hills	2007-2010
Research Associate, San Diego Natural History Museum	2005-2008
Assistant Professor of Biology, University of San Diego	2000-2007
Assistant Professor of Biology (Visiting), Gettysburg College	1999-2000
Postdoctoral Fellow, University of Houston	1999
Instructor, University of California Education Abroad Program	1998

Education

Ph.D., 1999    Environmental, Population and Organismic Biology, University of Colorado  
Dissertation: "The biogeography, behavior, and ecology of exotic ants"  
Major advisor: Michael D. Breed

A.B., 1993    Biology, Occidental College, Los Angeles

Peer-Reviewed Research Publications

McGlynn, T.P. The ecology of nest movement in social insects. *Annual Review of Entomology* 57, in press.

Jenkins, C.N. N.J. Sanders, A.N. Andersen, X. Arnan, C.A. Brühl, X. Cerda, A.M. Ellison, B.L. Fisher, M.C. Fitzpatrick, N.J. Gotelli, A.D. Gove, B. Guénard, J.E. Lattle, J.-P. Lessard, T.P. McGlynn, S.B. Menke, C.L. Parr, S.M. Philpott, H.L. Vasconcelos, M.D. Weiser, R.R. Dunn. 2011. Global diversity in light of climate change: the case of ants. *Diversity and Distributions* 17: 652-662 .

Wood, W.F., Hoang, T. and T.P. McGlynn. 2011. Volatile components from the mandibular glands of the turtle ants, *Cephalotes alfaroi* and *C. cristatus*. *Biochemical Systematics and Ecology* 39: 135-138.

McGlynn, T.P. 2010. Serial monodomy in the gypsy ant *Aphaenogaster araneoides*: does nest odor reduction influence colony relocation? *Journal of Insect Science* 10: 204.

McGlynn, T.P., T. Dunn, E. Wayman, and A. Romero. 2010. A thermophile in the shade: light-directed nest relocation in the Costa Rican ant *Ectatomma ruidum*. *Journal of Tropical Ecology* 26: 559-562.

Weiser, M.D., N.J. Sanders, D. Agosti, A.N. Andersen, X. Arnan, C.A. Bruhl, X. Cerda, A.M. Ellison, B.L. Fisher, M.C. Fitzpatrick, H. Gibb, N.J. Gotelli, A.D. Gove, B. Guenard, M. Janda, M. Kaspari, E.J. Laurent, J-P. Lessard, J.T. Longino, J.D. Majer, S.M. Menke, T.P. McGlynn, C.L. Parr, S.M. Philpott, M. Pfeiffer, J. Retana, A. Suarez, H. Vasconcelos, S.P. Yanoviak, R.R. Dunn. 2010. Canopy and litter ant assemblages share similar climate-species density relationships. *Biology Letters* 6: 769-772.

McGlynn, T.P., M.D. Weiser and R.R. Dunn. 2010. More individuals but fewer species – Tests of the more individuals hypothesis from experiments on a diverse tropical fauna. *Biology Letters* 6: 490-493.

Foucaud, J., J. Orivel, A. Loiseau, J. H. C. Delabie, H. Jourdan, D. Konghouleux, M. Vonshak, M. Tindo, J.-L. Mercier, D. Fresneau, J.-B. Mikissa, T.P. McGlynn, A. S. Mikheyev, J. Oettler and A. Estoup. 2010. Worldwide invasion by the little fire ant: routes of introduction and eco-evolutionary pathways. *Evolutionary Applications* 3: 363-374.

McGlynn, T.P. 2010. Polygyny in thief ants responds to competition and nest limitation but not food resources. *Insectes Sociaux* 57: 23-28.

Suarez, A.V., T.P. McGlynn, N.D. Tsutsui. 2010. Biogeographic and taxonomic patterns of introduced ants. in: *Ant Ecology*, L. Lach, K. Abbott, and K. Parr, eds, Oxford University Press.

McGlynn, T.P., H.K. Choi, S.T. Mattingly, A. Upshaw, E.K. Poirson and J. Betzelberger. 2009. Spurious and functional correlates of the isotopic composition of a generalist across a tropical rainforest landscape. *BMC Ecology* 9:23.

McGlynn, T.P., R.M. Fawcett, and D.A. Clark. 2009. Litter biomass and nutrient determinants of ant nest density, size, and growth in a tropical wet forest. *Biotropica* 41: 234-240.

Dunn, R.R., D. Agosti, A.N. Andersen, C.A. Bruhl, X. Cerda, A.M. Ellison, B.L. Fisher, M.C. Fitzpatrick, H. Gibb, N.J. Gotelli, A.D. Gove, B. Guenard, M. Janda, M.E. Kaspari, E.J. Laurent, J-P. Lessard, J.T. Longino, J.D. Majer, S.B. Menke, T.P. McGlynn, C.L. Parr, S.M. Philpott, M. Pfeiffer, J. Retana, A.V. Suarez, H.L. Vasconcelos, M.D. Weiser, and N.J. Sanders. 2009. Climatic

drivers of hemispheric asymmetry in global patterns of ant species richness. *Ecology Letters* 12: 324-333.

McGlynn, T.P. 2007. Serial monodomy in ants: an antipredator strategy? *Ecological Entomology* 32: 621-626.

McGlynn, T.P., D.J. Salinas, R.R. Dunn, T.E. Wood, D. Lawrence and D.A. Clark. 2007. Phosphorus limits tropical rain forest litter fauna. *Biotropica* 39: 50-53.

Dunn, R.R., N.J. Sanders, M.C. Fitzpatrick, E. Laurent, J.-P. Lessard, D. Agosti, A.N. Andersen, C. Bruhl, X. Cerdá, A. Ellison, B. Fisher, H. Gibb, N. Gotelli, A. Gove, B. Guenard, M. Janda, M. Kaspari, J.T. Longino, J. Majer, T.P. McGlynn, S. Menke, C. Parr, S. Philpott, M. Pfeiffer, M. Retana, A. Suarez, and H. Vasconcelos. 2007. Global ant biodiversity and biogeography – A new database and its possibilities. *Myrmecological News* 10: 77-83.

McGlynn, T.P. 2006. Ants on the move: Resource limitation of a litter-nesting ant community in Costa Rica. *Biotropica* 38: 419-427.

McGlynn, T.P., R. Carr, J. Carson, and J. Buma. 2004. Frequent nest relocation in the ant *Aphaenogaster araneoides*: resources, competition, and natural enemies. *Oikos* 106: 611-621.

Roberts, D., and T.P. McGlynn. 2004. *Tetramorium insolens* Smith (Hymenoptera: Formicidae): a new record for Mauritius, Indian Ocean. *African Entomology* 12: 265-267.

McGlynn, T.P., M.D. Shotell, and M.S. Kelly. 2003. Responding to a variable environment: home range, foraging behavior, and nest relocation in the Costa Rican rainforest ant *Aphaenogaster araneoides*. *Journal of Insect Behavior* 16: 687-701.

McGlynn, T.P., and J.P. Owen. 2002. Food supplementation alters caste allocation in a natural population of *Pheidole flavens*, a dimorphic leaf-litter dwelling ant. *Insectes Sociaux* 49: 8-14.

McGlynn, T.P., J.R. Hoover, G.S. Jasper, M.S. Kelly, A.M. Polis, C.M. Spangler, and B.J. Watson. 2002. Resource heterogeneity affects demography of the Central American ant *Aphaenogaster araneoides*. *Journal of Tropical Ecology* 18: 231-244.

McGlynn, T.P. 2000. Do Lanchester's laws of combat describe competition among ants? *Behavioral Ecology* 11: 11: 686-690.

McGlynn, T.P., and S.E. Kirksey. 2000. The effect of food presentation and microhabitat upon resource monopoly in a ground-foraging ant (Hymenoptera: Formicidae) community. *Revista de Biologia Tropical* 48: 629-642.

Schultz, T.R., and T.P. McGlynn. 2000. The Interaction of Ants with Other Organisms. Pp. 35-44, in: Agosti, D., Majer, J., Alonso, E. and Schultz, T., (eds.). *Ants: Standard Methods for Measuring*

and Monitoring Biodiversity. Biological Diversity Handbook Series. Smithsonian Institution Press. Washington D.C.

McGlynn, T.P. 1999. Non-native ants are smaller than related native ants. *American Naturalist* 154: 690-699.

McGlynn, T.P. 1999. The worldwide transport of ants: geographic distribution and ecological invasions. *Journal of Biogeography* 26: 535-548.

Breed, M.D., T.P. McGlynn, E. Stocker, and A.N. Klein. 1999. Thief workers and variation in nestmate recognition behavior in a ponerine ant, *Ectatomma ruidum*. *Insectes Sociaux* 46:327-333.

McGlynn, T.P. 1999. Other ant invaders. *Trends in Ecology and Evolution* 14: 489.

Breed, M.D., T.P. McGlynn, M.D. Sanctuary, E. Stocker, and R. Cruz. 1999. Distribution and abundance of several Meliponine species in a Costa Rican tropical wet forest. *Journal of Tropical Ecology* 15: 765-777.

McGlynn, T.P., and C.D. Kelley. 1999. Distribution of a Costa Rican lowland wet forest velvet worm (Onychophora: Peripatidae). *Annals of the Entomological Society of America* 92: 53-55.

#### Peer-Reviewed Teaching Publications

McGlynn, T.P. 2010. Effects of Biogeography on Community Diversity. *Nature Education Knowledge* 1:32.

McGlynn, T.P. 2010. How Does Social Behavior Evolve? *Nature Education Knowledge* 1:33.

McGlynn, T.P. 2008. Natural history education for students heading into the century of biology. *American Biology Teacher* 70: 109-111.

#### Manuscripts in review or revision

Huang, C., K. Tully, D.A. Clark, S.F. Oberbauer, T.P. McGlynn. Landscape-scale soil phosphorus gradient affects <sup>15</sup>N signature of detrital food web in a lowland tropical rainforest of Costa Rica. in review.

McGlynn, T.P. and Dunn, R.R. Explaining the diversification of ants: Fixed tradeoffs between caste and size. In review.

#### Honors

2011, CSU Dominguez Hills Excellence in Research, Scholarship and Creative Activity Award

2010-2011, President, International Union for the Study of Social Insects, North American Section

1999, George C. Eickwort Student Research Award, International Union for the Study of Social Insects, North American Section

Editorial service

2010 - 2013                      Subject editor for *Biotropica*

Extramural Grants and Awards

PI, March 2012 - February 2015, "Tropical Ecology Mentorship Program of CSU Dominguez Hills," National Science Foundation, OISE-1130156, \$149,626.

PI, "Curriculum Improvement Partnership Award for the Integration of Research into the Undergraduate Curriculum at CSU Dominguez Hills," National Aeronautical and Space Administration, \$450,000, in preparation.

Co-PI, September 2010 - August 2016, "Noyce Master Teacher Fellowship Initiative at California State University Dominguez Hills," National Science Foundation DUE-1035131, \$2,998,201.

PI, June 2009- May 2012, "International Research Experiences for Students: Tropical Ecology Mentorship Program of Southern California," National Science Foundation, OISE -0854259, \$150,677.

PI, 2008, "Tropical field ecology research experiences for two K-12 teachers in the Los Angeles Area" Supplement to OISE-0749047, \$19,800

PI, 2005-2009, "International Research Experiences for Students: Tropical Ecology Mentorship Program of Southern California," National Science Foundation Grant No. OISE-0526551, \$49,354; OISE-0749047, \$34,138. (transfer of award 0526551)

Co-PI, 2005-2009 "Complex interactions among water, nutrients and carbon stocks and fluxes across a natural fertility gradient in tropical rain forest," National Science Foundation Grant No. EAR-0421178, \$101,979 to TPM

PI, 2007-2009, "Edaphic and climatic determinants of ant biodiversity across western Australia" National Geographic Society, \$18,532.

PI, 2004-2005, "Planning Visit to Australia: Collaborative study of detritus-based food webs." National Science Foundation Grant No. OISE-0427481 \$4,101.

Co-PI, 2002-2004, AAAS/Merck collaborative biology and chemistry undergraduate research program, \$10,000

Environmental Institute of Houston, Postdoctoral Fellowship, 1999-2000, \$28,000

Donald and Beverly Stone Graduate Fellowship, 1997, \$2,000

Smithsonian Institution Short Term Visit Award, 1996, \$450

National Science Foundation Summer Institute in Japan, 1996, \$8,000

Andrew Mellon Foundation Research Exploration Award, 1996, \$2,000

Organization for Tropical Studies Research Grant, 1995, \$270

Teaching experiences

*California State University, Dominguez Hills*

Graduate Biostatistics (once annually, 2007-current)

General Biology, Laboratory (1-2 sections annually, 2007-current)

Independent Study in Biology (4-6 participants annually, 2007-current)

Seminar in Biomedical and Biological Research (2009-current)

Principles of Biology II, Laboratory (4 sections annually, 2007-2011)

Urban Teacher Residency Science Seminar (1 section annually, 2010-2012)

*University of San Diego*

Behavioral Ecology, Lecture and Laboratory (annually, 2000-2005)

Biology of Organisms, Lecture and Laboratory (every semester, 2000-2006)

Ecology, Laboratory (2001)

Insect Biology, Lecture and Laboratory (annually, 2001-2006)

Survey of Biology, Lecture (2006)

*Organization for Tropical Studies*

Tropical Biology: An Ecological Approach, Faculty resource person (1997 – current, 3 times)

*Gettysburg College (1999-2000)*

Introduction to Ecology and Evolution

Evolution, Lecture and Laboratory

The Evolution of Life (non-majors)

Environmental Issues (non-majors)

*University of California Education Abroad Program in Costa Rica*

Population, Community, and Conservation Ecology (1998)

*University of Colorado, Graduate Laboratory Teaching Assistant,*

Non-Majors Biology (“A Human Approach”) (1997-1999)

General Biology (Diversity and Ecology) (1994-1996)

General Biology (Cell and Molecular) (1995)

Insect Biology (1996)

Human Anatomy (1997)

Research Experiences for Undergraduates graduate mentor (1998)

*Occidental College, Undergraduate Teaching Assistant*  
General Ecology and Evolution (1993)  
Oceanology (1993)  
Evolutionary Biology (1994)

Symposia organized

- 2010 “Going big: Large scale spatial and temporal patterns in social insect communities”  
Congress of the International Union for the Study of Social Insects, Copenhagen, co-  
organized with Rob Dunn
- 2001 Organizer of symposium for Entomological Society of America National Meeting,  
"Worldwide odyssey: the ecology of invasive social insects." San Diego, California, co-  
organized with Nathan Sanders

Graduate advising: MS advisees

- 2008 – current Felicia Burt  
2010 – current Hannah Larson

Graduate advising: committees

Dudenka Anaya (2009), Alice Adkins (2010), Matt Bettino (2010), Karter Boutros (2010), Rizwana  
Kauzer (2010), Christina Kieffer (2013)

Institutional Service

CSUDH Science Subject Matter Preparations Advisor and Evaluator, May 2011 - current  
CSUDH Teaching in Science Advisor, Jan 2010 - current  
CSUDH Task Force on Marketing, Feb 2010 - current  
CSUDH University Committee on Educator Preparation, 2008-current  
CSUDH Faculty Research Advisory Council, February 2009-current  
CSUDH Biology Department Committee on Retention, Tenure and Promotion, April 2011-current  
CSUDH Biology Department Graduate Committee, 2007-current  
CSUDH Biology Department Curriculum Committee, 2008-current  
CSUDH Biology Department Space Committee, 2008-current  
CSUDH International Programs promotion group, Fulbright Scholar Program (April 2009-current)  
CSUDH Moderator and abstract reviewer for SCUR Conference at CSUDH, Spring 2009  
CSUDH WASC review interview panel on Faculty Development, Feb 2008  
CSUDH Day with Dominguez appearances: several 2007-current  
CSUDH NBS Budget Advisory Committee, 2007-2009  
CSUDH NBS ad-hoc Online Programs Committee, September 2008 -2009  
CSUDH representative to USDA-HSI Conference at CSULB, 9 June 2009  
CSUDH representative to system-wide meeting with the director of the CCTC, 1 May 2009  
CSUDH Student Research Conference, Judge, 2007  
Judge for posters and talks at Southern California Academy of Sciences Meeting, May 2008  
USD Shiley Center Website Maintenance Committee, 2004-2007  
USD Health Sciences Evaluation Committee, 2002-2006

USD Goldwater and Hayes Scholarship Committees, 2004-2006  
USD Graduate School in Biology faculty panel coordinator, 2000-2006  
Liasion between USD and San Diego County Parks, 2001-2005.  
USD Study Abroad Committee, Latin American Program Subcommittee, 202-2006  
USD Research and Internship Conference Organizing Committee, 2005  
USD Strategic directions on internationalization workshop participant, 2005  
USD Advisor to Goldwater Scholarship nominees, 2002, 2005  
USD Science Lecture Series, Co-Organizer: 2001-2002; Speaker: 2002, 2003  
Judge for USD Undergraduate Research and Internship Fair, 2000-2005  
Co-coordinator, Gettysburg College Biology seminar series, 1999-2000  
Chair, E.P.O. Biology Colloquium Committee, University of Colorado, 1997-1998  
Manager of BUGS electronic mailing list (bugs-l@colorado.edu), 1995-1998  
Organizer, Behavioral Ecology Journal Club, University of Colorado, 1997-1998  
Coordinator of E.P.O. Biology Brown Bag Lunch Seminar Series, 1997

Professional Affiliations

Association for Tropical Biology and Conservation  
Ecological Society of America  
Entomological Society of America  
International Union for the Study of Social Insects  
Organization for Tropical Studies  
Phi Kappa Phi, Honor society  
Phi Sigma, Biology honor society  
Sigma Xi, Scientific honor society