

## Curriculum Vitae, May 2017

### Terrence P. McGlynn

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### Academic appointments

Professor of Biology, CSU Dominguez Hills	2015-current
Research Associate, Natural History Museum of Los Angeles County	2016-current
Associate Professor of Biology, CSU Dominguez Hills	2010-2015
Assistant Professor of Biology, CSU Dominguez Hills	2007-2010
Assistant Professor of Biology, University of San Diego	2000-2007
Research Associate, San Diego Natural History Museum	2005-2008
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  
A.B., 1993 Biology, Occidental College, Los Angeles

### Peer-Reviewed Publications

Holste, E.K., E. Wayman, R.K. Kobe, T.P. McGlynn 2017. Fine-scale edaphic variation in stable carbon and nitrogen isotopes: consequences for experimental design in trophic ecology. In review.

Nelson, A.S., T. Scott, M. Barczyk, T.P. McGlynn, A. Avelos. E. Clifton, A. Das, A. Figueiredo, L. Figueroa, M. Janowiecki, S. Pahlke, J. Rana, and S. O'Donnell. 2017. Intracolony variation in thermal tolerance by thieving ants (*Ectatomma ruidum*) is a functional response to thermal challenges. In review.

O'Donnell, S., and T.P. McGlynn. 2017. Emigrating on the fly: A novel method of army ant colony movement observed in *Eciton mexicanum*. In review.

McGlynn, T.P. 2017. Identity matters: Communicating about equity and opportunity for students in Minority-Serving Institutions. *Annals of the Entomological Society of America*, in press.

Gibb, H., R.R. Dunn, N.J. Sanders, and 70 authors including T.P. McGlynn. 2017. A global database of ant species abundances. *Ecology*, in press. DOI: 10.1002/ecy.1682

McGlynn, T.P., E.L. Parra. 2016. Mechanisms of carbohydrate-fueled ecological dominance in a tropical rainforest canopy-foraging ant. *Ecological Entomology* 41: 226-230.

McGlynn, T.P., R. Graham, J. Wilson, J. Emerson, J.M. Jandt, A.H. Jahren. 2015. Distinct types of foragers in the ant *Ectatomma ruidum*: typical foragers and furtive thieves. *Animal Behaviour* 109: 243-247.

Chips, M.J., E.H. Yerger, A. Hervanek, T. Nuttle, A.A. Royo, J.N. Pruitt, T.P. McGlynn, C.L. Riggall, W.P. Carson. 2015. The indirect impact of long-term overbrowsing on insects in the Allegheny National Forest region of Pennsylvania. *Northeastern Naturalist* 22:782-797.

Jandt, J.M., E.M. Hunt, T.P. McGlynn. 2015. Intraspecific food-robbing and neighborhood competition: Consequences for anti-robbler vigilance and colony productivity. *Biotropica* 47: 491-496.

Larson, H.K., S.K. Goffredi, E.L. Parra, O. Vargas, A. Pinto, T.P. McGlynn. 2014. Distribution and dietary regulation of an associated facultative Rhizobiales-related bacterium in the omnivorous Giant Tropical Ant, *Paraponera clavata*. *Naturwissenschaften* 100: 1109-1114.

Jandt, J.M., H.K. Larson, P. Tellez, T.P. McGlynn. 2013. To drink or to grasp? How bullet ants (*Paraponera clavata*) differentiate between sugars and proteins in liquids. *Naturwissenschaften* 101: 397-406

McGlynn, T.P., A. Alonso-Rodriguez, M. Weaver. 2013. An experimental test of species-energy theory: patch occupancy and colony size in tropical rainforest litter-nesting ants. *Oikos* 122: 1357-1361.

Guénard, B. and T.P. McGlynn. 2013. Intraspecific thievery in the Ant *Ectatomma ruidum* is mediated by food availability. *Biotropica* 45: 497-502.

McGlynn, T.P., S.E. Diamond, R.R. Dunn. 2012. Tradeoffs in the evolution of caste and body size in the hyperdiverse ant genus *Pheidole*. *PLOS One* 7: e48202

McGlynn, T.P., E.K. Poirson. 2012. Ants accelerate litter decomposition in a Costa Rican lowland tropical rain forest. *Journal of Tropical Ecology* 28: 437-443.

Huang, C., K.L. Tully, D.A. Clark, S.F. Oberbauer, T.P. McGlynn. 2012. The  $\delta^{15}\text{N}$  signature of the detrital food web tracks a landscape-scale soil phosphorus gradient in a Costa Rican lowland tropical rain forest. *Journal of Tropical Ecology* 28: 395-403.

McGlynn, T.P. 2012. The ecology of nest movement in social insects. *Annual Review of Entomology* 57: 291-308.

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. Lattke, 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.

#### **Editorial service**

2015 – current Associate Editor for *Insectes Sociaux*

2010 – current Subject Editor for *Biotropica*

#### **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.

#### **Invited Book Reviews**

McGlynn, T.P. 2012. Review of Polidori, C., *Predation in the Hymenoptera*. *Myrmecological News* 17: 132.

#### **Scientific Consultant for Children's Books**

Jackson, T. *Magic School Bus Presents: Insects*. 2015. Scholastic, New York.

#### **Extramural Grants and Awards**

Total exceeding \$5 million as PI and Co-PI since 2005.

2013-2018 "CSUDH Robert Noyce Scholarship Program" National Science Foundation DUE-1339961, (Co-PI) \$800,000.

2013-2017 "International Research Experiences For Students: Carbon, Fire and Climate Change in Australia," National Science Foundation OISE-1261015, (PI) \$249,922.

2012-2016 "Tropical Ecology Mentorship Program of CSU Dominguez Hills," National Science

Foundation, OISE-1130156, (PI) \$149,626.  
2010-2016 “Noyce Master Teacher Fellowship Initiative at California State University Dominguez Hills,” National Science Foundation DUE-1035131, (Co-PI) \$2,998,201.  
2009-2012 “International Research Experiences for Students: Tropical Ecology Mentorship Program of Southern California,” National Science Foundation, OISE –0854259, (PI) \$150,677.  
2008 “Tropical field ecology research experiences for two K-12 teachers in the Los Angeles Area” Supplement to OISE-0749047, (PI) \$19,800  
2005-2009, “International Research Experiences for Students: Tropical Ecology Mentorship Program of Southern California,” National Science Foundation Grant No. OISE-0526551,; OISE-0749047 transfer of award, (PI) \$49,354  
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 (Co-PI) \$1,638,730.  
2007-2009, “Edaphic and climatic determinants of ant biodiversity across western Australia” National Geographic Society, (PI) \$18,532.  
2004-2005, “Planning Visit to Australia: Collaborative study of detritus-based food webs.” National Science Foundation Grant No. OISE-0427481 (PI) \$4,101.  
2002-2004, AAAS/Merck collaborative biology and chemistry undergraduate research program, (Co-PI), \$10,000  
1999-2000, Environmental Institute of Houston, Postdoctoral Fellowship, \$28,000  
1997, Donald and Beverly Stone Graduate Fellowship, \$2,000  
1996, Smithsonian Institution Short Term Visit Award, \$450  
1996, National Science Foundation Summer Institute in Japan, \$8,000  
1996, Andrew Mellon Foundation Research Exploration Award, \$2,000  
1995, Organization for Tropical Studies Research Grant, \$270

### **Honors**

2016 Student Select Speaker, University of Arkansas Department of Entomology  
2014 CSU Dominguez Hills Faculty Scholar  
2011 CSU Dominguez Hills Excellence in Research, Scholarship and Creative Activity Award  
2010 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

### **Invited Workshops Attended**

2014, Defaunation in Tropical Forests Working Group, La Selva, Costa Rica.  
2007, QEM (Quality Education for Minorities) BIO Workshop, Washington DC.  
2007, NCEAS (National Center for Ecological Analysis and Synthesis) working group, invited participant, “Spatial Aspects of Stoichiometry,” Santa Barbara, CA  
2000 – 2005, IUCN (World Conservation Union) Species Survival Commission, Social Insect Specialist Group  
1996, Ants of the Leaf Litter Workshop, Ilheus, Brazil

### **Intramural Grants and Awards**

CSUDH RSCA Award, \$15,000, 2014-2015

CSUDH RSCA Award, \$15,000, 2013-2014  
CSUDH Promoting Excellence in Graduate Studies Travel Award, Fall 2011, \$2000  
CSUDH Proposal Development Grant, Fall 2009, \$5000  
CSUDH RSCAAP Grant, May – August 2008, \$4200  
CSUDH RSCAAP Grant, Jan – May 2008, \$5000  
University of San Diego College of Arts and Sciences Faculty Research Grant, 2006-2007, \$3,500  
University of San Diego College of Arts and Sciences Faculty Research Grant, 2005-2006, \$2,420  
University of San Diego College of Arts and Sciences Faculty Research Grant, 2004-2005, \$1,800  
University of San Diego College of Arts and Sciences Faculty Research Grant, 2003-2004, \$2,395  
University of San Diego College of Arts and Sciences Faculty Research Grant, 2002-2003, \$2,395  
University of San Diego College of Arts and Sciences Faculty Research Grant, 2001-2002, \$1,500  
Gettysburg College Research and Professional Development Grant, 1999-2000, \$2,500  
University of Colorado Graduate School University Fellowship, 1998, \$7,000  
University of Colorado Graduate School Research Assistance Grant, 1997, \$200  
University of Colorado Museum Walker Van Riper Fellowship, 1996, \$1,200  
University of Colorado Dean's Small Grant, 1996, \$450  
University of Colorado Tropical Biology course scholarship, 1995, \$2,200

#### **Externally funded curricular development**

2008-2010, "General Biology Laboratory Manual," a suite of discovery-oriented general biology Laboratories for CSUDH, currently serving ca. 500 students annually; funded by U.S. Department of Education Quality Educator Development grant to CSUDH.

#### **Invited Seminar Presentations**

2017 CISRO Tropical Ecosystem Research Centre, Darwin, Australia  
Michigan State University, Ecology, Evolutionary Biology, and Behavior Program  
University of Michigan, Department of Ecology and Evolutionary Biology  
Purdue University, Department of Entomology

2016 University of Arkansas, Department of Entomology Student Select Speaker  
Linfield College, Science Seminar Series  
Natural History Museum of Los Angeles County, Research and Collections

2015 California State University, Long Beach, Department of Biology  
Dartmouth College, Department of Biology  
University of Illinois Urbana-Champaign, Department of Animal Biology  
La Selva Biological Station, Research Experiences for Undergraduates program

2014 La Selva Biological Station

2013 Org. for Tropical Studies Native Amer. and Pacific Islanders Research Exp., Costa Rica  
St. Lawrence University, Tropical Ecology program  
University of Colorado, Department of Ecology and Evolutionary Biology  
University of Miami, Department of Biology

2012 CSU Dominguez Hills, Seminar Series in Biological and Biomedical Research  
Southern California Technology in Education Conference, Panelist on STEM Education

2011 University of Arizona, Center for Insect Science  
Linfield College, Tropical Biology Course in Costa Rica

2010 Osher Lecture Series, Extended Education Program of CSU Dominguez Hills

- Colgate University, Tropical Biology Course in Costa Rica
- 2009 Organization for Tropical Studies, Research Experiences for Undergraduates program  
Washington and Jefferson College, Tropical Ecology Course in Costa Rica  
Osher Lecture Series, Extended Education Program of CSU Dominguez Hills
- 2008 California State University Northridge, Department of Biology  
Research Experiences for Undergraduates Program, La Selva Biological Station
- 2007 California State University Long Beach, Department of Biology  
CSU Dominguez Hills, Seminar Series in Biological and Biomedical Research  
La Selva Biological Station  
Tennessee State University, Department of Biology
- 2006 Cincinnati Museum Center, Museum of Natural History and Science  
La Selva Biological Station, Research Experiences for Undergraduates program  
Mount St. Mary's College, Department of Biology, Los Angeles  
University of La Verne, Department of Biology, Los Angeles
- 2005 Bridges Academy Program, University of San Diego
- 2004 Curtin University of Technology, Department of Environmental Biology, Perth, Australia  
La Selva Biological Station  
University of California at Riverside, Department of Entomology  
University of California at San Diego, Department of Biology
- 2003 Cornell University, Department of Entomology  
La Selva Biological Station  
Invisible University Lecture Series, University of San Diego
- 2002 La Selva Biological Station  
Hubbs-Sea World Research Institute  
Science Lecture Series, University of San Diego
- 2001 La Selva Biological Station
- 2000 California State University, Los Angeles, Department of Biology  
La Selva Biological Station, Department of Biology  
US Forest Service, Monongahela National Forest
- 1999 Rice University, Department of Ecology and Evolution  
University of Houston, Department of Biology and Biochemistry  
University of Pittsburgh, Department of Biology
- 1998 University of Colorado, Environmental, Population, and Organismic Biology  
La Selva Biological Station  
Occidental College
- 1997 La Selva Biological Station
- 1996 Henderson Museum, University of Colorado  
Williams Village Academic Program, University of Colorado  
La Selva Biological Station  
Department of Geography, University of Colorado
- 1993 University of Bern Zoological Institute

### **Teaching experiences**

*Southwestern Research Station/American Museum of Natural History*  
Ants of the Southwest (2012 - 2016)



*Organization for Tropical Studies*

Social Insects in the Tropics, Faculty resource person (2012, 2017)

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

*California State University, Dominguez Hills*

Graduate Biostatistics (annually, 2007-current)

Advances and Misconceptions in Science and Science Teaching (team taught, 6x, 2010-2013)

Environmental Biology (non-majors course, 2013)

General Biology, Laboratory (1-2 sections annually, 2007-2011)

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

Seminar in Biomedical and Biological Research (occasionally)

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

Urban Teacher Residency Science Seminar (1 section annually, 2010-2013)

*Occidental College*

Biostatistics (Spring 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)

*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)

### **Professional Development Facilitator**

2016 Panel for early-career ecologists, Ecological Society of America meeting  
2015 Webinar on tenure denial for the National Center for Faculty Development and Diversity  
2012 – 2013 Google Digital Ambassador to CSU Dominguez Hills  
2011 – current Director of the Biology Subject Matter Preparation Programs of CSUDH  
2010 – current Teaching in Science Advisor at CSUDH  
2008-2009 Co-facilitator inquiry learning institutes for LAUSD biology teachers  
2006 Inquiry learning workshop in physiology for 5<sup>th</sup> grade teachers  
Inquiry Learning Institute, Reuben H. Fleet Science Center

### **Mentorship of Research Experiences for Teachers at La Selva Biological Station, Costa Rica**

2015 Joele Hogkins (LAUSD)  
2014 Jane Wilson (Columbine Middle School, Montrose, CO)  
2013 Ulises Dumas (Edison Middle School, LAUSD)  
2010 David Hicks (Sun Valley High School, LAUSD)  
2010 Daniel McDonnell (Sun Valley High School, LAUSD)  
2009 Felicia Burt (Jefferson High School, LAUSD)  
2008 Justin Betzelberger (East Valley High School, LAUSD)

### **Invited Conference Symposium Presentations**

McGlynn, T.P. 2017. Mary Talbot of Lindenwood College: Trailblazing science from the margins. Ecological Society of America, Portland, OR, USA.  
McGlynn, T.P. 2016. Decomposition, thermal microclimates, and the consequences for ant biodiversity. International Congress of Entomology, Orlando, USA.  
McGlynn, T.P., P. Tellez, W.P. Carson. 2014. Top predators, habitat complexity and the biodiversity of litter-dwelling ants. International Union for the Study of Social Insects, Cairns, Australia (McGlynn, T.P. 2014. Are insects drivers or passengers of tropical rainforest detrital nutrient cycles? Goldschmidt (international atmospheric science conference) Sacramento, USA.  
McGlynn, T.P., P. Tellez and M. Chips and W. Carson. 2013. Do fences make better neighbors? Vertebrate effects on litter arthropod biodiversity. Association for Tropical Biology and Conservation and Organization for Tropical Studies Joint Conference, San Jose, Costa Rica.  
McGlynn, T.P. 2012. Mesofauna as drivers and passengers of decomposition in tropical forests. Ecological Society of America, Portland, OR USA.  
McGlynn, T.P. 2008. Local gradients in stoichiometry and trophic level of an omnivorous ant. International Congress of Entomology, Durban, South Africa.  
McGlynn, T.P. 2004. The behavioral ecology of rainforest ants. Opportunities for Research in Behavioral Science Symposium I, San Diego, USA.  
McGlynn, T.P. 2003. Ecology of invasive ants found in agroecosystems. Association of Integrated Pest Management Ecologists, San Luis Obispo, California, USA.  
McGlynn, T.P. 2002. Monitoring and response strategies for preventing and controlling ant invasions. Entomological Society of America National Meeting, Ft. Lauderdale, USA.  
McGlynn, T.P. 2002. An early warning system for social insect invasions. IUSSI International

- Congress, Sapporo, Japan.
- McGlynn, T.P. 2000. Human commensalism and ecological invasions of North American exotic ants. International Congress of Entomology, Iguassu Falls, Brazil.
- McGlynn, T.P. 1999. Food supplementation increases soldier proportion in *Pheidole flavens*. IUSI International Congress, Adelaide, Australia.
- Schultz, T.R. and T. P. McGlynn. 1996. Interactions of ants with other organisms. Smithsonian Ants of the Leaf Litter Workshop, Iheus, Brazil.

### **Conference Presentations (\* indicates undergraduate)**

- Parra, E.L.\*, McGlynn, T.P. 2015. Mechanisms of carbohydrate-fueled ecological dominance in a tropical rainforest canopy-foraging ant. Entomological Society of America, Minneapolis, USA. [Student Competition Audience Choice Award]
- McGlynn, T.P. 2015. Sneaky thieves are sneaky: furtive food removal behaviors characterize a novel caste of ants. Association for Tropical Biology and Conservation, Honolulu, USA.
- McGlynn, T.P., J. Perez\*, E.L. Parra\*. 2014. Does microgeographic thermal complexity beget biodiversity in rainforest detrital food webs? Ecological Society of America Annual Meeting, Sacramento (oral)
- McGlynn, T.P. 2014. Behavioral and ecological mechanisms of conspecific food robbing in the Neotropical ant *Ectatomma ruidum*. Association for Tropical Biology and Conservation Annual Meeting, Cairns, Australia (oral)
- McGlynn, T.P. and R.R. Dunn. 2011. Local and global tests of models of soldier production in *Pheidole* ants. Entomological Society of America, Reno, NV (oral)
- McGlynn, T.P., and A. Alonso\*. 2010. Fine-scale thermal partitioning of ants under the shade of an the tropical rainforest canopy. Entomological Society of America, San Diego, CA (oral)
- McGlynn, T.P. 2010. Biogeochemistry and the structure of ant colonies and communities. Congress of the International Union for the Study of Social Insects, Copenhagen (poster)
- McGlynn, T.P., D.A. Clark and S.F. Oberbauer 2009. Structure of a detrital food web: Relative influence of biomass vs. nutrient inputs. Ecological Society of America Annual Meeting, Albuquerque (oral)
- Poirson, E.K\*, T.P. McGlynn and S.F. Oberbauer. 2008. The Role of litter decomposition, fertility, and litter-dwelling animals in the carbon cycle of a tropical rain forest. International Congress of Entomology, Durban, South Africa (poster)
- McGlynn, T.P. S.F. Oberbauer and D.A. Clark. 2007. Habitat and stoichiometry predict density of litter-dwelling ants and other tropical rain forest arthropods. Entomological Society of America, San Diego (oral)
- McGlynn, T.P. 2005. Odor-mediated nest relocation in a rainforest ant. Entomological Society of America, Ft. Lauderdale (oral)
- McGlynn, T.P., R. Fawcett, \*D. Salinas, \*A. Esparza, and D.A. Clark. 2005. Support for the growth rate hypothesis in a terrestrial detrital community. Ecological Society of America, Montreal. (oral)
- Oberbauer, S.F., D.A. Clark, D. Genereux, D. Lawrence, A. Russell, T. McGlynn, M.-L. Smith, N. Bynum, J. Espeleta, and C. Lewis. 2005. BCE/CBC: Complex interactions among water, nutrients and carbon stocks and fluxes across a natural fertility gradient in tropical rain forest. All hands Biocomplexity meeting, March 21-23 Washington DC (poster).
- McGlynn, T.P. 2004. The ecological stoichiometry of a tropical ant community. IUSI North

- American Section Meeting, Arizona. (oral)
- McGlynn, T.P., \*R. Carr, \*J. Carson, and \*J. Buma. 2002. Frequent nest relocation in a soil-nesting tropical rainforest ant. Entomological Society of America National Meeting, Ft. Lauderdale, Florida (oral)
- McGlynn, T.P., \*M.S. Kelly, and \*M.D. Shotell. 2001. What is poor habitat? Food and foraging in a rainforest ant. Entomological Society of America National Meeting, San Diego, California (oral)
- McGlynn, T.P. 2001. Opening remarks of “Worldwide odyssey: ecology of social insects” symposium, Entomological Society of America National Meeting, San Diego, California (oral)
- McGlynn, T.P. 2000. How environmental heterogeneity impacts a tropical litter-foraging ant. IUSI North American Section Meeting, Huntsville, Arkansas. (oral)
- McGlynn, T.P. 1999. How to fight: Lanchester’s laws of combat mediate interspecific interactions in a Neotropical ant community. Entomological Society of America National Meeting, Atlanta, Georgia (oral)
- McGlynn, T.P., and M.D. Springer. 1998. Factors affecting reproduction and resource utilization in a Neotropical leaf litter ant community. Association for Tropical Biology National Meeting, Baltimore, Maryland. (oral)
- McGlynn, T.P. 1997. The prediction of invasive ant species. IUSI North American Section Meeting, Boulder, Colorado. (oral)
- McGlynn, T.P. 1996. Resource partitioning in Neotropical ants. Entomological Society of America National Meeting, Louisville, Kentucky. (poster)

### **Professional Training in Teaching Methods**

- 2011-2012 Google Faculty Digital Teaching Tools seminar participant
- 2010-2011 Training exercises in Cognitive Coaching (8 hours) from LA Educational Project
- 2007-2008 QED (Quality Educator Development) Science workshops, CSUDH College of Education (6 semester units of activities)
- 2007 Faculty Success Program, CSU Dominguez Hills (3 semester units of activities)
- 2005 Academic integrity workshop participant, University of San Diego
- 2004 Assessment workshop participant, University of San Diego
- 1998 Fellow, Preparing Future Faculty Program, University of Colorado Cluster. The PFF program trains experienced graduate students and postdoctoral researchers for teaching careers.
- 1998 Certification, University of Colorado Graduate Teacher Program. Completion of a comprehensive set of two videotape evaluations and 20 hours of training seminars and biology-specific workshops on teaching.

### **Grant Panelist for National Science Foundation**

- 2016 Division of Biological Infrastructure
- 2016 Division of Environmental Biology

### **International and National Service**

- 1997 – current: Reviewed for Agricultural and Forest Entomology, American Naturalist, Animal Behaviour, Annals of the Entomological Society of America, Austral Ecology, Axios Review,

Asian Myrmecology, Behavioral Ecology, Biodiversity and Conservation, Biological Conservation, Biological Invasions, Biotropica, Canadian Entomologist, Diversity, Diversity and Distributions, Earthwatch Foundation, Ecography, Ecological Applications, Ecological Entomology, Ecology, Ecology Letters, Ecology and Evolution, Environmental Entomology, Functional Ecology, Global Change Biology, Ideas in Ecology and Evolution, Insect Conservation and Diversity, Interciencia, Insectes Sociaux, Journal of Animal Ecology, Journal of Applied Entomology, Journal of Biogeography, Journal of Ethology, Journal of Insect Behavior, Journal of Insect Conservation, Journal of Insect Science, Journal of the Kansas Entomological Society, Journal of Tropical Ecology, Journal of Undergraduate Chemistry Research, Methods in Ecology and Evolution, Myrmecological News, Murdock Charitable Trust, National Geographic Society, National Science Foundation, Nature, Nature Education, Naturwissenschaften, Oecologia, Oikos, PLOS Biology, PLOS One, Psyche, Revista de Biología Tropical, Royal Society of New Zealand Marsden Fund, Science, Soil Biology and Biochemistry, Southeastern Naturalist, USDA, US-Israel Binational Agricultural Research and Development Fund, Western North American Naturalist

2014-2017, Awards committee, IUSSI-NAS (North American Section of the International Congress of the International Union for the Study of Social Insects)

2012-2014, Nominations committee, IUSSI-NAS (North American Section of the International Congress of the International Union for the Study of Social Insects)

1997 Organizational committee for the North American IUSSI meeting, Niwot Ridge, Colorado

### **Symposia organized**

2012 “Social Insects and the Emergence of Novelty: From Local Rules to Global Behavior,” Entomological Society of America National Meeting, Knoxville, Tennessee, co-organized with Zachary Shaffer, Juliana Rangel, Theresa Pitts-Singer, and Sandra Rehan

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 "Worldwide odyssey: the ecology of invasive social insects." Organizer of symposium for Entomological Society of America National Meeting San Diego, California, co-organized with Nathan Sanders

### **Graduate advising**

2010 – 2012	Hannah Larson, MS (Biology) Nutritional effects on Nitrogen cycling by an <i>Bartonella</i> -like symbiont in the ant <i>Paraponera clavata</i>
2015 – 2017	Sara Hu, MS (Biology) The ontogeny of chemical mimicry and cleptoparasitism in the ant <i>Melophorus anderseni</i>

### **Graduate advising committees**

Dudenka Anaya (2009), Alice Adkins (2010), Matt Bettino (2010), Rizwana Kauzer (2010), Kacie Barton (2012), Christina Kieffer (2013), Karter Boutros (2013), Rolando Lopez (2014), Lauren Fah, external: CSULB (2015), Jennifer Boren (2016)

## **Postdoctoral Advisees**

Ching-Yu Huang (2010); currently a postdoc at UC Santa Cruz

## **Institutional and Local Service**

CSUDH Ad-hoc Committee on Pre- and Post- Award Grant Services, 2015  
CSUDH University Academic Senator, 2013-current  
CSUDH NBS Advisory Council on Research, 2012-2014  
CSUDH Science Subject Matter Preparation Program (SMPP) Director, May 2011-current  
CSUDH Teaching in Science Advisor, Jan 2010 - current  
CSUDH University Committee on Educator Preparation, 2008-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 University Grade Appeals Review Board Investigator, Spring 2012  
CSUDH International Programs promotion group, Fulbright Scholar Program (April 2009-2011)  
CSUDH Task Force on Marketing, Feb 2010 - 2011  
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 2007-2011  
CSUDH NBS Budget Advisory Committee, 2007-2009  
CSUDH NBS ad-hoc Online Programs Committee, September 2008 -2009  
CSUDH representative to system-wide meeting with the director of the CCTC, 1 May 2009  
CSUDH Student Research Conference, Judge, most years  
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**

American Society of Naturalists (life member)  
Association for Tropical Biology and Conservation  
Council on Undergraduate Research

Ecological Society of America (life member)  
Entomological Society of America  
International Union for the Study of Social Insects  
Organization for Tropical Studies