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## DOUGLAS H. DEUTSCHMAN

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Department of Biology  
San Diego State University  
San Diego, CA 92182-4614

**Tel:** (619) 594-5391  
**Fax:** (619) 594-5676  
ddeutschman@mail.sdsu.edu

### EDUCATIONAL BACKGROUND

Ph.D.	1996	Cornell University (Ecology and Evolutionary Biology) Advisor: Simon A. Levin
M.Math	1990	University of Waterloo in Ontario, Canada (Statistics)
M.S.	1990	Bowling Green State University (Biology)
B.A.	1984	University of Pennsylvania (Biology and Environmental Studies)

### PROFESSIONAL EXPERIENCE

2008 -	<b>Professor</b> , Department of Biology, San Diego State University
2003 - 2008	Associate Professor, Department of Biology, San Diego State University
1997 - 2003	Assistant Professor, Department of Biology, San Diego State University
1996 - 1997	Postdoctoral Research Associate, Department of Ecology and Evolutionary Biology, Princeton University
1994 - 1996	Adjunct Faculty and Instructor, Department of Environmental Studies, Antioch New England Graduate School
1989 - 1991	Adjunct Faculty and Visiting Lecturer, University of Michigan Biological Station, University of Michigan

### HONORS AND AWARDS

#### **Exemplary Graduate Adviser**, SDSU Exemplary Academic Advising Awards (2007)

Recipient of the 15<sup>th</sup> annual Exemplary Academic Adviser award for graduate advising. The Exemplary Adviser awards formally recognize faculty, staff and peer advisers who provide outstanding graduate and/or undergraduate advising to San Diego State students.

#### **Outstanding Faculty Award**, Department of Biology (2006):

Outstanding Faculty Award in recognition as the most influential university professor in the academic career of Loni Bonanno, San Diego State University, May, 2006.

**PUBLICATIONS**

1. **Deutschman DH**, PJ McIntyre, SL Strahm, BE Kus, M Pavelka, P Gordon-Reedy, T Smith, JA Crooks, W Vickers, K Greer, T Oberbauer, J Martin, and K Miner. **Accepted**. Solutions for improved adaptive management and monitoring across multiple jurisdictions: results from a structured workshop in the San Diego Multiple Species Conservation Program. **Journal of Environmental Management**.
2. Uyeda\* K, DH Deutschman and J Crooks. **2013** .Abiotic limitation of invasive plants in the high salt marsh transition zone. **Estuaries and Coasts 36:1125-1136**.
3. Komoroske LM\*, RL Lewison, JA Seminoff, **DH Deutschman**, and DD Deheyn. **2012**. Trace metals in an urbanized estuarine sea turtle food web in San Diego Bay, CA. **Science of the Total Environment 417-418:108-116**
4. Franklin, JF H Regan LA Hierl, **DH Deutschman**, BS Johnson, CS Winchell. **2011**. Planning, Implementation and Monitoring Of Multiple Species Habitat Conservation Plans. **American Journal of Botany 98:559-571**.
5. Kozlowski WA\*, **DH Deutschman**, I Garibotti, C Trees, and M Vernet. **2011**. An evaluation of the application of CHEMTAX to Antarctic coastal pigment data. **Deep Sea Research 58:350-364**.
6. Ford\*, HL, SA Schellenberg, BJ Becker, DH Deutschman, KA Dyck, and PL Koch. **2010**. Evaluating the skeletal chemistry of *Mytilus californianus* as a temperature proxy: Effects of microenvironment and ontogeny. **Paleoceanography 25, Article PA1203**.
7. Marschalek, DA and **DH Deutschman**. **2009**. Larvae and Oviposition of Hermes Copper (Lepidoptera: Lycaenidae). **J. Entomol. Sci. 44(4): 1-3**.
8. Regan, HM, LA Hierl, J Franklin J, **DH Deutschman**, Heather L Schmalbach\*, CS Winchell and BS Johnson. **2008**. Species prioritisation for monitoring and management in regional multiple species conservation plans. **Diversity and Distributions 14(3) 462-471**.
9. Kotliar, NB, EW Reynolds\*, and **DH Deutschman**. **2008**. American three-toed woodpecker response to burn severity and prey availability at multiple spatial scales. **Fire Ecology 4(2): 26-45**.
10. Hierl LA, J Franklin, **DH Deutschman**, HM Regan, and BS Johnson. **2008**. Assessing and Prioritizing Ecological Communities for Monitoring in a Regional Habitat Conservation Plan. **Environmental Management 42(1) 165-179**.
11. Marschalek\* DA and **DH Deutschman**. **2008**. Hermes copper (Lycaena [Hermelycaena] hermes: Lycaenidae): life history and population estimation of a rare butterfly. **J. Insect Conservation. 12(2) 97-105**.
12. Kelt DA, JA Wilson, ES Konno, JD Braswell\*, and **DH Deutschman**. **2008**. Differential responses of 2 species of kangaroo rat (*Dipodomys stephensii*) to heavy rains: humbling explanation. **J. Mammalogy 89(1). 252-254**.
13. Kus BE, BL Peterson\*, and **DH Deutschman**. **2008**. A multiscale analysis of nest predation on Least Bell's Vireos (*Vireo Bellii Pusillus*). **Auk 125(2) 277-284**.
14. Deutschman DA and **DH Deutschman**. **2007**. Effectiveness of High-Dose Ziprasidone in Treatment-Resistant Mood and Psychotic Disorders: A Case Series. **J Clinical Psychopharmacology 27(5) 1-2**.
15. Franklin J, LA Spears-Lebrun, **DH Deutschman**, and K Marsden. **2006**. Impact of a high-intensity fire on mixed evergreen and mixed conifer forests in the Peninsular Ranges of southern California, USA. **Forest Ecology and Management 235: 18-29**

16. Allen, EB, RD Cox, T Tennant, SN Kee, and **DH Deutschman**. 2005. Landscape restoration in southern California forblands: Response of abandoned farmland to invasive annual grass control. **Israel J. of Plant Sciences** 53(3-4):237-245
17. **Deutschman, DH**. 2004. Book Review Turchin, Peter. 2003. Complex population dynamics: a theoretical-empirical synthesis. **Ecology** 85(4):1174-1175
18. Peterson, BL, BE Kus and **DH Deutschman**. 2004. Determining nest predators of the Least Bell's Vireo through point counts, tracking stations, and videophotography. **Journal of Field Ornithology**. 75 (1): 89-95
19. **Deutschman, DH**, J Carstens, R Klepper, W Smith, MT Page, T Young, L Gleason, N Nakajima, and R Sabbadini. 2003. Predicting Obstructive Coronary Artery Disease Using Serum Sphingosine-1-Phosphate. **American Heart Journal**. 146 (1): 62-68.
20. Desmond, JS, **DH Deutschman**, and JB Zedler. 2002. Spatial and temporal variation in estuarine fish and invertebrate assemblages. Analysis of an 11-year dataset. **Estuaries**. 25:552-569.
21. **Deutschman, DH**. 2001. The Design and analysis of biodiversity field experiments. Ecological Research. 16(5)833-843.
22. Archibald JD and **DH Deutschman**. 2001. Quantitative Analysis of the Timing of the Origin and Diversification of Extant Placental Orders. **Journal of Mammalian Evolution**. 8(2):107-124
23. Franklin J, DJ Mladenoff, HS He, DK Simons, RP Martin, **DH Deutschman** and JF O'Leary. 2001. Simulating the effects of different fire regimes on plant functional groups in southern California: **Ecological Modelling** 142:261-283
24. **Deutschman DH**, C Devine, and LA Buttel. 2000. The role of visualization in understanding a complex forest simulation model. **Computer Graphics** 34(1):51-55.
25. **Deutschman, DH**, SA Levin, and SW Pacala. 1999. Error propagation in forest succession models: the role of fine-scale heterogeneity in light. **Ecology** 80(6):1927-1943
26. **Deutschman DH**, SA Levin, C Devine and LA Buttel. 1997. Scaling from trees to forests: analysis of a complex simulation model. **Science** 277:1688.  
[www.sciencemag.org/feature/data/deutschman/index.htm](http://www.sciencemag.org/feature/data/deutschman/index.htm)
27. Bolker, BM, **DH Deutschman**, G Hartvigsen and DL Smith. 1997. Individual-based modelling: what is the difference? **TREE** 12(3):111.
28. Pacala SW and **DH Deutschman**. 1995. Details that matter: The spatial distribution of individual trees maintains forest ecosystem function. **Oikos** 74(3):357-365.
29. McClaran M, P Ang, A Capurro, **DH Deutschman**, JM Guarini, and D Schaeffer. 1995. Interpreting explanatory processes from time series patterns: Lessons from three time series. In: Steele and Powell (eds) Ecological Time Series. Chapman and Hall, NY
30. **Deutschman, DH**, GA Bradshaw, WM Childress, K.Daly, D. Grünbaum, M. Pascual, NH Schumaker, and J. Wu. 1993. Mechanisms of patch formation. In: Steele, Levin and Powell (eds) Patch Dynamics. Springer Verlag. Berlin.

## PUBLISHED TECHNICAL REPORTS

1. **DH Deutschman** and S. McCullough. 2013. Monitoring and Adaptive Management of Burrowing Owl on Conserved Lands in Southern San Diego County: Task C for 2012: Data analysis and synthesis. SANDAG. 27 pp.
2. RL Lewison and DH Deutschman. 2013. Framework / Template for Implementing Adaptive Management Guidelines for best practices with examples of effective monitoring and management. SANDAG. 133 pp.
3. SL Strahm, DA Marschalek, **DH Deutschman**, and ME Berres. 2013. Monitoring the Status of Hermes Copper (*Lycaena hermes*) on Conserved Lands in San Diego County: 2010 – 2012. SANDAG 61 pp.
4. **DH Deutschman**, and SL Strahm. 2013. Six years of Vegetation Monitoring on the Irvine Ranch Open Space Easements in Central Orange County, CA. Report to The Nature Conservancy. 40 pp.
5. **DH Deutschman** and SL Strahm. 2012. Monitoring and Management in the San Diego Multiple Species Conservation Program: Results from a Structured Workshop. SANDAG. 62 pp.
6. K Williams and **DH Deutschman**. 2012. Evaluating the sensitivity of Quino Checkerspot Butterfly (*Euphydryas editha quino*) to two herbicides commonly used for habitat restoration and management. California Department of Fish and Game. 10pp.
7. **DH Deutschman** and S. McCullough. 2012. Monitoring and Adaptive Management of Burrowing Owl on Conserved Lands in Southern San Diego County. Report to SANDAG. 33 pp.
8. RL Lewison, **DH Deutschman**, E Marnocha, C Tredick, and P McIntyre. 2012. Developing Conceptual Models: Translating Knowledge into Action. Building and implementing an integrated framework for monitoring and management in San Diego County. Report to SANDAG. 115 pp.
9. **DH Deutschman**, ME Berres, DA Marschalek and SL Strahm. 2011. Two-Year Evaluation of Hermes Copper (*Lycaena hermes*) On Conserved Lands in San Diego County. Report to SANDAG. 54 pp.
10. **DH Deutschman**, and SL Strahm. 2011. Four years of Vegetation Monitoring on the Irvine Ranch Open Space Easements in Central Orange County, CA. Report to The Nature Conservancy. 50 pp.
11. **DH Deutschman**, and SL Strahm. 2011. Oak Woodland Monitoring for the NROC Reserves in central Orange County. Report to The Nature Reserves of Orange County. 52 pp.
12. **DH Deutschman**, ME Berres, DA Marschalek and SL Strahm. 2010. Initial Evaluation of the Status of Hermes copper (*Lycaena hermes*) On Conserved Lands in San Diego County. Report to SANDAG. 41 pp.
13. **DH Deutschman**, T Marchant, J Simonsen-Marchant\*\*, 2010. Technical Review of “Burrowing Owl Population Study in the Imperial Valley, California: Survey and Sampling Methodologies for Estimation” Submitted to the Imperial Irrigation District. 16pp.
14. Brehme, C.S. and R.N. Fisher in collaboration with Burnham, K., Meserve, P., Spencer, W., Miller, W., Pavelka, M., and **D. Deutschman**. 2009. Pacific Pocket Mouse Monitoring Plan for Marine Corps Base Camp Pendleton: Short Term Studies and Long Term Goals. 2009. Prepared for Wildlife Management Branch, AC/S Environmental Security, Marine Corps Base Camp Pendleton. 88pp.
15. **Deutschman DH**, S Strahm, D Bailey, J Franklin and R Lewison. 2008. Using Variance Components Analysis to Improve Vegetation Monitoring for the San Diego Multiple Species Conservation Program (MSCP) Final Report: Natural Community Conservation Planning Program. Local Assistance Grant #P0685105. San Diego State University, 97 pp.

16. **Deutschman DH**, S Strahm, D Bailey, J Franklin and R Lewison. **2008**. Improving Statistical Sampling and Vegetation Monitoring for Open Space in Central Orange County. Report to The Nature Conservancy. San Diego State University, San Diego. 56 pp.
17. **Deutschman DH**, S Strahm, D Bailey, J Franklin and R Lewison. **2008**. Improving Statistical Sampling and Vegetation Monitoring for Open Space in Central Orange County. Report to Nature Reserves of Orange County. San Diego State University, San Diego. 56 pp.
18. **Deutschman DH**, LA Hierl, J Franklin and HM Regan. **2007**. Vegetation Community Monitoring Recommendations for the San Diego Multiple Species Conservation Program. Report to California Department of Fish and Game NCCP Local Assistance Grant #P0450009. San Diego State University, San Diego. 37 pp.
19. Hierl, L.A., J. Franklin, **DH Deutschman**, and H.M. Regan. **2006**. Developing conceptual models to improve the Biological Monitoring Plan for San Diego's Multiple Species Conservation Program. Report to California Department of Fish and Game NCCP Local Assistance Grant #P0450009. San Diego State University, San Diego. 39 pp.
20. Franklin, J., L.A. Hierl, **DH Deutschman** and H.M. Regan. **2006**. Grouping and prioritizing natural communities for monitoring in the San Diego MSCP. Report to California Department of Fish and Game NCCP Local Assistance Grant #P0450009. San Diego State University, San Diego. 50 pp.
21. Regan, H.M., L.A. Hierl, J. Franklin and **DH Deutschman**. **2006**. Grouping and Prioritizing the MSCP Covered Species. . Report to California Department of Fish and Game NCCP Local Assistance Grant #P0450009. San Diego State University, San Diego. 133 pp.
22. Hierl L., H.M. Regan, J. Franklin and **DH Deutschman**. **2005**. Assessment of the Biological Monitoring Plan for San Diego's Multiple Species Conservation Program. Report to California Department of Fish and Game NCCP Local Assistance Grant #P0450009. San Diego State University, San Diego. 83 pp.
23. Deutschman DH and S Heppel. **2004**. Technical review of population trends and extinction metrics used in the nmfs hydropower biological opinion. National Marine Fisheries Service, Seattle WA. 22 pp.
24. Diffendorfer, J and **DH Deutschman**. **2003**. Monitoring the Stephens' Kangaroo Rat: An analysis of monitoring methods and recommendations for future monitoring. Report to California Department of Fish and Game NCCP Local Assistance Grant. San Diego State University, San Diego. 51 pp.

## PRESENTATIONS AND INVITED SYMPOSIA

1. **DH Deutschman**. **2012**. Long-term Vegetation Monitoring in an Adaptive Management Context. UC Irvine (Regional Symposia)
2. **DH Deutschman**. **2012**. Status Report on Management Plan Standardization. SANDAG Environmental Mitigation Program Working Group.
3. **DH Deutschman**. **2010**. The Limits of Power: Evaluating Statistical Power in Multi-Species Monitoring Programs. UC Davis. (Departmental Seminar)
4. **DH Deutschman**. **2010**. Monitoring and Adaptive Management of NCCP lands. California Department of Fish and Game, Sacramento, CA. (Invited Presentation)
5. **DH Deutschman**. **2010**. The Abuse of Power: The Design of a Monitoring Program for Burrowing Owls in the Imperial Valley, CA. Institute for Conservation Research. San Diego Wild Animal Park. (Departmental Seminar)

6. **DH Deutschman. 2009.** Power Analyses for Monitoring. Mission Trails Regional Park, San Diego, CA. (Grant-Funded Workshop Presentation)
7. **DH Deutschman and SL Strahm. 2009.** Southern California Regional Vegetation Monitoring Workshop: Field Methods, Data Analysis and Optimal Monitoring Procedures. Mission Trails Regional Park, San Diego, CA. (Grant-Funded Workshop Presentation)
8. **DH Deutschman. 2008.** Using variance components analysis to improve the sample and response designs of San Diego MSCP's long-term vegetation monitoring program. The Science of Monitoring and Management 2008 Symposium. UC Riverside.
9. **DH Deutschman. 2007.** Ecosystem Management: A concept or practice? **(Invited Presentation)** Ecosystem Best Management Practices and Metrics. MCI West Conservation Expo 2007. Oceanside, CA.
10. **DH Deutschman. 2007.** An Analysis Of Monitoring Methods To Date And Recommendations For Future Monitoring Protocols. **(Invited Presentation)** Western Riverside Reserve Managers Meeting. Riverside, CA.
11. **DH Deutschman. 2007.** Statistical Design and Analysis of Vegetation Monitoring. NCCP Local Assistance Grant # P0685105. San Diego, CA.
12. Kozlowski W, **DH Deutschman**, M Vernet and C Trees. **2006.** Pigment Derived Phytoplankton Composition along the Western Antarctic Peninsula. NASA Ocean Colors Research Team Meeting. Seattle, WA.
13. Kozlowski W, **DH Deutschman**, M Vernet and C Trees. **2006.** Phytoplankton composition and distribution along the Western Antarctic Peninsula. NSF LTER All Scientists Meeting. Estes Park, CO.
14. Schuette P, J Diffendorfer, **DH Deutschman**, and S Tremor. **2006.** Carnivore community response to a large wildfire in San Diego County, California. Society for Conservation Biology. 20<sup>th</sup> Annual Meeting. San Jose, CA.
15. Schuette P, J Diffendorfer, **DH Deutschman**, and S Tremor. **2006.** Carnivore community response to a large wildfire in San Diego County, California. Defenders of Wildlife Carnivores Conference. St. Petersburg, Florida.
16. **Deutschman DH**, E. Reynolds, and N. Kotliar. **2005.** American Three-toed Woodpecker (*Picoides dorsalis*) Response to Spatial Patterns of Burn Severity and Prey Availability. Ecological Society of America 90th Annual Meeting, Montreal, Canada.
17. Strahm SL and **DH Deutschman. 2005.** Spatial pattern and invasion before and after fire in California coastal sage scrub. Ecological Society of America 90th Annual Meeting, Montreal, Canada.
18. L Markovchick-Nicholls; H Regan; PH Zedler; and **DH Deutschman. 2005**, Building management capacity for Tecate cypress (*Cupressus forbesii*) using risk assessment. Society for Conservation Biology. 20<sup>th</sup> Annual Meeting. Universidade de Brasília, Brasília, Brazil.
19. **Deutschman, D.H. 2002.** The importance of right skew in ecological data analysis. 87<sup>th</sup> Annual Meeting of the Ecological Society of America.
20. Principe, Z.A., **D. H. Deutschman**, and P.H. Zedler, **2002.** Effects of fire on the demography of a savanna oak tree, *Quercus engelmannii*. 8<sup>th</sup> Annual Meeting of the Ecological Society of America.

21. Chalekian, J.S. and D.H. **Deutschman, 2002**. Local-scale pattern in a California sage scrub community: The importance of local interactions. 8<sup>th</sup> Annual Meeting of the Ecological Society of America.
22. **D.H. Deutschman. 2001**. Spatial interactions in plant ecology: data collection, data analysis, and mathematical modeling. Southern California Academy of Sciences – Symposium on Spatially Explicit Ecology.
23. **D. H. Deutschman**, J. Carstens, M. T. Page, R. Klepper, and R.Sabbadini. 2001. The MIRF Trial: Sphingosine-1-Phosphate (S1P) as a novel marker for Myocardial Ischemia. Circulation 104(17 Supplement). October 23, **2001**. II.485.
24. Carstens Jeffrey S., **Deutschman D. H.** Page M Trevor. Klepper Robert E. Sabbadini Roger A. **2001**. Sphingosine-1-phosphate is an early serum marker for acute myocardial infarction (AMI). Journal of the American College of Cardiology. 37(2 Supplement A).354A.
25. **Deutschman, D. H. 2001**. Grabbing a whale by its tail: The influence of the extreme right-tail of the distribution on population estimates of the Alaskan bowhead whale (*Balaena mysticetus*). 86<sup>th</sup> Annual Meeting of the Ecological Society of America
26. Sabbadini Roger A. Deutschman D. H. Carstens Jeffrey S. Klepper Robert L. Smith W., Chastain H., D., Page T., Nakajima N., and Young, T. **2000**. The MIRF Trial: Predicting the incidence and severity of CAD using serum sphingolipids. Circulation. 102(18 Supplement).699.
27. Deutschman, D. H. and J. Diffendorfer. **2000**. Challenges in survey design and data analysis of a long-term study: Lessons from a 17-year study of Bowhead Whales in the Alaskan Beaufort Sea. Bulletin of the Ecological Society of America.
28. Deutschman, D.H. **1999**. “Emergent Dynamics in a Forest Model: The role of local competition and limited dispersal in mediating broad-scale patterns in SORTIE.” 1999. Local Interactions and Global Phenomena in Vegetation and other Systems, Institute for Mathematics and its Applications, U. Minnesota, Minneapolis.
29. Deutschman, D.H. **1999**. “Experimental Approaches to Biodiversity: Experimental Design, Data Analysis, and Theoretical Predictions.”1999. Biodiversity Trilateral Meeting, Kyoto University, Japan.

## RECENT RESEARCH GRANTS

More than \$2 million in funding over the period 2008-2013:

Role	Title	Agency	Start Date
PI	Improving Statistical Sampling and Vegetation Monitoring For The Nature Conservancy Reserves	Nature Conservancy (The)	Feb-08
PI	Evaluating Accuracy of the Vegetation Sampling on the Nature Reserve of Orange County 2008	Nature Reserve of Orange County (The)	Feb-08
PI	Vegetation Monitoring for the Multiple Species Conservation Program- Jump Start for Field Season 2008	California Department of Fish and Game	Mar-08
PI	Using Soil Salinity and Soil Moisture to Inhibit Invasive Species at the Upland-High Marsh Ecotone	DOC National Oceanic and Atmospheric Administration	Jun-08
PI	Evaluation and Refinement of Vegetation Monitoring Methods for the San Diego Multiple Species Conservation Program	San Diego Association of Governments	Aug-08
PI	Monitoring Irvine Ranch Open Space Easements 2009-13	Nature Conservancy (The)	Feb-09
PI	Improving Statistical Sampling and Vegetation Monitoring for the Nature Reserves in Central Orange County 2009-2011	Nature Reserve of Orange County (The)	Feb-09
PI	Tijuana River Valley Regional Park and Barnett Ranch Multiple Species Conservation Program Monitoring	Technology Associates International Corporation	May-09
PI	Adaptive Management and Reserve Level Monitoring	California Department of Fish and Game	Mar-10
PI	Initial Evaluation of the Status of Hermes Copper (Lycaena Hermes) on Conserved Lands in San Diego County	San Diego Association of Governments	Apr-10
PI	Monitoring the Status of Hermes Copper (Lycaena Hermes) on Conserved Lands in San Diego County	San Diego Association of Governments	Apr-10
PI	Monitoring and Adaptive Management of Burrowing Owl on Conserved Lands in Southern San Diego County	San Diego Association of Governments	Jan-11
PI	Otay Tarplant Conceptual Model Development	Nature Conservancy (The)	Apr-11
PI	Evaluation and Refinement of Vegetation Monitoring Methods for the San Diego MSCP	San Diego Association of Governments	May-11
PI	Long-term monitoring of vegetation composition across disturbance gradients in Grasslands, CSS, and Chaparral	Nature Conservancy (The)	Mar-13
PI	Accuracy assessment of the Vegetation Map of Western San Diego (2012)	SANDAG	Apr-13
PI	Estimating recreational use of SD City Parks	Helix Environmental Inc (For City of SD Parks and Rec)	Jul-13
PI	Partnership to provide student interns at Cabrillo National Monument	US National Parks Service	Aug-13
Co-PI	IEMM Management and Monitoring	San Diego Association of Governments	Nov-10
Co-PI	Herbicide Effects on Immature Stage	California Department of Fish and Game	Jun-11
<b>Total Funding (2008 to 2013, PI and CoPI)</b>			
As Principal Investigator		\$	1,913,203.00
As Co-Principal Investigator		\$	422,685.00
<b>Grand Total</b>		<b>\$</b>	<b>2,335,888.00</b>



## GRADUATE STUDENTS

### ECOLOGY PhD STUDENTS, CHAIR

1. Sarah McCullough (*current*).
2. Jessica Braswell (**2007**). Response of the small mammal community to natural and anthropogenic disturbances. (*Faculty Member, Queens University of Charlotte, NC*)
3. Marie Moreau (**2007**). Ecotoxicology and Temporal Trends of Arsenic and Selenium in a Saline and Eutrophic Lake in California. (*Lecturer, San Diego City College, San Diego State University*)
4. Jennifer Lansing (**2003**). Diversity and Abundance of Microrhizal Assemblages in Different Ecosystems. (*postdoctoral research, UC Riverside*).

### ECOLOGY MS STUDENTS, CHAIR

1. Julia Groebner (*current*)
2. Drew Smith (*current*)
3. Emily Howe (*current*)
4. Benito Lo (*current*)
5. Julia Jesu (*current*)
6. Julie Simonsen-Marchant (**2013**). Optimizing a multi-species monitoring program: A case study for birds in agroecosystem.
7. Alissa Brown (**2011**). Small mammal seed preference in coastal sage scrub communities: new technologies, new insights. (*Biological Consultant*)
8. Kellie Uyeda (**2010**). Abiotic limitation of invasive plants in the high salt marsh transition zone (*PhD Student, SDSU Geography Department*)
9. Wendy Kozlowski (**2008**). Pigment derived phytoplankton composition along the western Antarctic Peninsula. (*Research Scientist, UCSD*)
10. A. Laurie Harvey (**2008**). California brown pelican nesting parameters, prey distributions, and oceanographic conditions from 1986-2005. (*Seabird Biologist, Channel Islands National Park*)
11. Paul Schuette (**2007**). Carnivore community response to a large wildfire in San Diego county, California. (*PhD Student, Montana State*)
12. Mark Mendelsohn (**2005**). Occurrence of the greater roadrunner (*Geococcyx californianus*) in fragmented southern California habitat patches (*Ecologist, USGS*)
13. Spring Strahm (**2005**). Spatial pattern and invasion before and after fire in California coastal sage scrub (*SDSU Field Station, Reserve Managers SMER*).
14. Dan Marchalek (**2004**). Factors influencing population viability of Hermes copper (*Lycaena hermes*). (*PhD Student, Wisconsin*).
15. Elizabeth Reynolds (**2004**). American three-toed woodpecker response to spatial patterns of burn severity and prey availability (*Ecologist, USGS*).
16. Kevin Cummins (**2003**). Factors in the control of parasite populations that have abundant hosts: *Cuscuta salina* in the salt marsh. (*SDSU Master's program in Statistics*)
17. Jeannie Yu (**2003**). Influence of social organization on scatterhoarding in the Steller's jay (*Cyanocitta stelleri*).

18. John Chalekian (2002). Pattern and process in a California sage scrub (CSS) community: the effects of local interactions.
19. Zach Principe (2002). Factors affecting Engelmann oak (*Quercus engelmannii*) regeneration.
20. Bonnie Peterson (2002). The effects of nest concealment, habitat edge and adjacent land use on nest predation of the Least Bell's Vireo (*Vireo bellii pusillus*).
21. KM Ward (2000). Episodic colonization of an intertidal mudflat by Cordgrass (*Spartina foliosa*) at Tijuana Estuary.

#### **COMMITTEE MEMBER (ECOLOGY PHD STUDENTS)**

1. Zulueta, Rommel (2013). Assessing Regional Scale Fluxes of Mass, Momentum, and Energy with Small Environmental Research Aircraft.
2. Laskowski, Cheryl (2010). Controls on carbon flux in Alaska: seasonal, inter-annual, and site-to-site differences.
3. Skadberg, Kirstin (2008). Patterns and drivers of nearshore coastal air-sea CO<sub>2</sub> exchange.
4. Floyd, Emily (2007). Short-term exposure of the fathead minnow (*Pimephales promelas*) to a pyrethroid insecticide: implications for growth, behavior, and predation risk
5. Larson, Amy (2007). Chemical defenses and community impacts of the phoronid *Phoronopsis viridis* in Bodega Bay, CA.
6. Rahn, Matthew (2005). Evaluating science and policy: conservation planning and the Endangered Species Act.
7. Kwon, Hyojung (2005). Temporal and spatial analysis of the patterns and controls on carbon dioxide, water vapor, and energy fluxes in the Alaskan Arctic tundra
8. Williams-Anderson (2000). Effects of whole-ecosystem atmospheric carbon dioxide concentration manipulation on abundance and species diversity in a post-fire chaparral community.

#### **COMMITTEE MEMBER (ECOLOGY MS STUDENTS)**

1. Warneke, Alex (current). The interaction of inducible defenses and contaminants in a marine producer-herbivore relationship.
2. Montagne, JP (current). The influence of temperament on translocation of California ground squirrels.
3. Rambo, Joshua (2013). Investigating forest-atmosphere water exchange with high frequency spectroscopy isotope observations.
4. Gaos, Alex (2011). Satellite telemetry reveals novel insights into the biology and conservation of critically endangered hawksbill turtles (*Eretmochelys imbricata*).
5. Burnett, Christina (2009). Effects of pedestrians on the flight behavior of butterflies along trails in urban parks.
6. Santos, Elizabeth (2009). Population trends and recruitment patterns of *Pinus torreyana* at the Torrey Pine State Reserve.
7. Anderson, Tom (2008). Avian use and selenium risks evaluated at a constructed saline habitat complex at the Salton Sea, California.
8. Galst, Carey Jo (2007). Fish-habitat associations and the role of disturbance in surfgrass beds
9. Markovchick-Nicholls, Lisa M (2007). Southern Californian obligate fire seeder, *Cupressus forbesii* : population status, management options, and research prioritization.

10. McConnell, Patrick O'toole (2006). Effects of herbivory by *Opsius stactogalus fieber* and edaphic factors on growth and resource allocation in Tamarix.
11. Dane, Laura (2005). Carbon cycling and diversity of cryptobiotic soil crusts: effects of primary producers.
12. Chapman, Robert (2005). Understanding and effectively measuring bird response to habitat disturbance in coastal sage scrub
13. Spears, Linnea (2005). Tree mortality and forest recovery in Cuyamaca Rancho State Park, San Diego County, California following the 2003 Cedar Fire
14. Fleming, Genie (2005). Disturbance and invasion in coastal sage scrub : native plant responses based on life history, growth form, and spatial scale
15. Marriott, Adrienne (2004). Effects of elevated Carbon Dioxide on *Adenostoma fasciculatum* leaf nutrients
16. Rourke, James (2004). An evaluation of fluctuating asymmetry as a tool in identifying imperiled bird populations
17. Kisner, David (2004). The effect of giant reed (*Arundo donax*) on the southern California riparian bird community.
18. Ferree, Kim (2002). Nest site selection and nest success of Yellow Warbler, Bell's Vireo, and Yellow-breasted Chat in a desert riparian ecosystem.
19. Sharp, Bryan (2002). Factors influencing the incidence of brood parasitism by Brown-headed Cowbirds (*Molothrus ater*) of Least Bell's Vireos (*Vireo bellii pusillus*)
20. Johnson, Megan (2000). Investigating functional equivalency : quality and availability of food provided to benthic detritivores by the seagrasses *Ruppia maritima* and *Zostera marina*

#### COMMITTEE MEMBER (OTHER PROGRAMS/DEPARTMENTS)

1. Ary, William (current). Form, function and phylogeny: Quantitative analysis of the cetacean tympanoperiotic complex (MS Evolutionary Biology)
2. Rachels, Diana (current). Comparison of chaparral re-growth patterns between Santa Ana wind-driven and non-Santa Ana fire areas (MS Geography)
3. Hull, Karen (2012). Qualia in a materialist theory. (MS Philosophy).
4. Speed-Rossiter, Jaime (2011). Negotiating conservation space in San Diego county: perceptions and attitudes regarding the multiple species conservation program. (MS Geography).
5. Warner, Jared (2009). Biotic response of Ostracodes to the middle Eocene climatic optimum (MECO; 40.0 ma) in the southern Indian ocean (ODP site 748). (MS Geology).
6. Forcino, Frank (2009). *Mytilus californianus* as an environmental monitor: A case study from central California (MS Geology).
7. Webb, Amelinda (2008). Quantifying the ecological response of brachiopods during the Ordovician extinction. (MS Geology).
8. Suter, Jenny (2007). An evaluation of the area stratification used for sampling tunas in the eastern pacific ocean and implications for estimating total annual catches. (MS Statistics)
9. Ford, Heather (2007). Evaluating the skeletal chemistry of *Mytilus californianus* as a temperature proxy: effects of microenvironment and ontogeny. (MS Geology)
10. Fellows, Ian (2006). The mid-p, optimality, and consistency in the theory of discrete statistics (MS Statistics)
11. Chalekian, John (2003). Emergence of local-scale pattern on a 2-D lattice : a stochastic, spatially explicit simulation model. (MS Statistics)

12. Takamatsu, James (2003). An optimal design for linear regression models with a covariate predicted through kriging. (MS Statistics)
13. Lowenfish, Martin (2003). Using remote sensing and landscape metrics to predict the health of a semi-arid Wyoming rangeland (MS Geography)
14. Peterson, Seth (2000). Using a multiple image endmember linear mixture model to study chaparral regrowth on MCAS Miramar. (MS Geography)
15. Martin, Ross (1999). Modeling landscape scale fire disturbance and functional group response : a simulation of the fire adaptive behaviors found in the vegetation communities of the Laguna Mountains in southern California. (MS Geography)

## PHD. EXAMINER (24 EXAMS IN 10 YEARS)

### PhD Qualifying Exam (SDSU and UC Davis Joint Doctoral Program)

Bree Putnam (2013)

Shannon Hoss (2013, Exam Chair)

Sheila Madrak (2012)

Cove Sturtevant (2010)

Ryan Jenkinson (2009)

Cheryl Laskowski (2008, Exam Chair)

Francis Bozzolo (2008)

Dean Leavitt (2007)

Kirstin Skadberg (2005, Exam Chair)

Rommel Zulueta (2005)

Emily Floyd (2004)

Yonghai Qian (2004)

Amy Larson (2003)

Kim Miller (2012)

Max Castorani (2011)

Hiroki Ikawa (2010)

Guillermo Torres (2009)

Megan Jennings (2008, Exam Chair)

Donatella Zona (2007)

Dawn Lawson (2006, Exam Chair)

Laura Carney (2005)

Hongyan Lou (2004)

Hywojung Kwon (2004)

Matt Rahn (2003, Exam Chair)

## ACADEMIC SERVICE

### Service to the University

Chair, Academic Resources and Planning (University and Senate)

Faculty Senate (University)

Judicial Hearing Officer for the Center for Students Rights and Responsibilities (University)

Graduate Core Curriculum Committee (Department of Biology)

### Reviewer

Ecological Applications

Journal of Ecology

Journal of Mountain Science

National Science Foundation

PhD External Examiner, University of New England (Australia)

### Science Advisory Board Member

Pacific Pocket Mouse Monitoring Team (USGS, US Fish and Wildlife)

Burrowing Owl Management and Monitoring Team (SANDAG, CA DFG, US Fish and Wildlife)