

## BIOGRAPHICAL SKETCH

**Carla M. D'Antonio**

Professor and Schuyler Chair of Environmental Studies  
Environmental Studies Program and Dept. of Ecology, Evolution and Marine Biology,  
UCSB

### **University Address:**

Environmental Studies Program & Ecology, Evolution and Marine Biology  
University of California  
Santa Barbara, CA 93106

### **Professional Appointments (past 10 years):**

Faculty Director, Cheadle Center for Biodiversity and Ecological Restoration (UCSB),  
2005-present.  
Professor, Environmental Studies and Ecology, Evolution and Marine Biology, (UCSB)  
2005-present.  
Professor, Dept of Integrative Biology, UC Berkeley (2001-2004).  
Plant Ecologist and Lead Scientist, USDA-ARS, Exotic and Invasive Weeds Research  
Unit, Reno, NV (2002-2005)  
Adjunct Professor, Dept. of Natural Resources and Environmental Science, UNR (2002-  
2005)  
Associate Professor, Dept. of Integrative Biology, UC Berkeley (1997-2001)  
Assistant Professor, University of California, Berkeley. (1991-1997).  
Affiliate, Energy Resources Group, UC Berkeley  
Affiliate, Range Science Graduate Group, UC Berkeley

### **Academic Background:**

Post-doctoral associate, Stanford University, 1990-1991.  
PhD in Biological Sciences, University of California, Santa Barbara. 1990.  
M.S. in Zoology, Oregon State University, Corvallis. 1982  
B.A. in Zoology, University of Washington, Seattle. 9/76-6/78.  
Mount Holyoke College, South Hadley. 9/74-6/76.

### **Current Research Topics:**

Controls over biological invasion by non-indigenous plant species  
Feedback between population and ecosystem processes in plants  
Plant effects on soil resources  
Restoration of California grasslands invaded by non-native species

### **Awards & Honors :**

Outstanding leadership, USDA-ARS Fall 2004.  
Grad Student invited special speaker, USU, Spring 2004.  
Recipient USDA-ARS national competitive postdoctoral award, Fall 2003.  
Visiting Distinguished Ecologist, CSU, Spring 2002  
Miller Professor, Fall 1998  
Faculty Fund for Research in Biological Sciences Award, June 1998.

Chancellor's Initiative Award, July 1996  
 Prytanean Alumnae Award, 1994  
 Career Development Award, Fall 1993

**Professional Societies:**

Ecological Society of America  
 International Society of Vegetation Science  
 IUCN-Invasive Species Specialist Group  
 Society for Ecological Restoration  
 Sigma Xi

**External Competitive Grant Support (student grants [NSF/DIG, NASA, EPA] not included):**

Joint Fire Sciences program. Collaborative research: Restoration of sagebrush-steppe ecosystems. 2005-2010. J. McIver, PI with 12 others. \$12 million. (Due to logistical difficulties, I passed my portion on to D. Johnson, UNR). Am now science advisor to this project.

CSREES-NRI, USDA. Collaborative research: Biologically based control for the area-wide management of exotic and invasive weeds. R. Carruthers=lead PI. 2001-2005. collaborator.

Center for Invasive Plant Management. Effects of prescribed fire in invasive exotic plants in the western USA. 2003-2005. co-PI with D. Kimberling. \$35,000.

NSF DEB 9910008. Feedbacks between species composition and ecosystem nitrogen cycling in a California coastal prairie. \$316,000. 2000-2003. (plus REU supplements for summers 2000,2001, 2002). PI.

Packard Foundation. Research, conservation and monitoring in California's Coast range oak woodlands and grasslands. \$263,000. 2001, w/co-PI F. Davis, S. Harrison, K. Rice, J. Reichman. Co-PI.

Marin Community Foundation, Restoration of native species after removal of invasive N fixing shrubs. \$90,000, 1998-2001. PI.

NSF DEB 9815813. Context specific constraints on sagebrush-herb dynamics in Sierra Nevada meadows (w/E. Berlow) \$321,000. 1999-2003. (plus REU supplement for summers 1999, 2000,2001). PI (with co-PI, E. Berlow).

Marin Open Space District, Response of vegetation to removal of French Broom. \$2,500. 1999-2000.

NSF BSR-9119618, Ecosystem and population consequences of alien grass invasion of seasonally dry Hawaiian woodlands; \$600,000; June 1991 - May 1997. (REU supplements: 1994, 1995, 1997). PI.

NSF DEB-9322795, Conservation Biology; The ecological and evolutionary significance of hybridization in *Carpobrotus* species in California; \$49,764;September 1994 - August 1995. PI (with co-PI, K. Schierenbeck).

Hellman Family Fund, Vegetation change and recovery in Sierran Montane meadows. July 1995-July 1998, \$24,000.

Miller Foundation for Basic Research in Science. Mechanisms of nitrogen retention in coastal prairie ecosystems. \$5,000. 1998-99.

- California Dept. of Water Resources. Impacts and control of Giant Reed (*Arundo donax*) in California riparian ecosystems. July 1996-June 1998, \$49,000, co PI (with T. Dudley).
- Heckard Fund, Impacts of native vs introduced grasses on nitrogen retention and cycling in CA coastal prairie. \$2,000, 1998.
- California Department of Parks and Recreation, *Tamarisk* invasion in Coyote Creek in Anza-Borrego Desert State Park; \$25,080; August 1992 - June 1995.
- UREP, Invasion of Hawaiian dry forests by non-native grasses. Summer 1992. \$5,000.

### **Publications:**

1. Highsmith, R., A. Riggs and C. D'Antonio. 1980. Survival of hurricane generated coral fragments and a disturbance model of reef calcification/growth rates. *Oecologia* 46:322-329.
2. D'Antonio, C. 1982. Population and community ecology of the red alga, *Rhodomela larix* on the central Oregon coast. Master's thesis. Oregon State University, Corvallis.
3. D'Antonio, C. 1985. Epiphytes on the rocky intertidal red alga, *Rhodomela larix*: Negative effects on host and food for herbivores. *J. Experimental Marine Biology and Ecology* 86:197-218.
4. D'Antonio, C. and A. Gibor. 1985. A note on some influences of photon flux density on the morphology of *Gelidium robustum* germlings in culture. *Botanica Marina* 28:313-316.
5. D'Antonio, C. 1986. The role of sand in the domination of hard substrates by the red alga, *Rhodomela larix*. *Marine Ecology Progress Series* 27:263-275.
6. D'Antonio, C. 1986. Growth and reproduction of the red alga, *Rhodomela larix* (Turner) C. Agardh. *Canadian Journal of Botany* 64:1499-1506.
7. Odion, D., T. Dudley, C. D'Antonio. 1988. Cattle grazing in southeastern Sierran meadows: Ecosystem change and prospects for recovery. In, C.A. Hall and V. Doyle-Jones, eds., *Plant Biology of Eastern California*: 277-292.
8. Apt, K., C. D'Antonio, J. Crisp and J. Gauvain. 1988. Intertidal macrophytes of Santa Cruz Island. Univ. of CA, Santa Barbara, Herbarium Publication Series, no. 6.
9. D'Antonio, C.M. 1990. Invasion and dominance of coastal plant communities by the introduced succulent, *Carpobrotus edulis*. PhD dissertation, Univ. of California, Santa Barbara. 212pp.
10. D'Antonio, C.M. 1990. Seed production and dispersal in the non-native, invasive succulent *Carpobrotus edulis* L. (Aizoaceae) in coastal strand communities of central California. *J. Applied Ecology* 27:693-702.
11. D'Antonio C and A. Howald. 1990. Evaluating the effectiveness of hydroseed mixes, topsoil conservation and other revegetation techniques: A case study in Santa Barbara County, CA. In: HG Hughes and TM Bonnicksen (eds), Proceedings 1st Annual Meeting of the Soc. for Ecological Restoration, Univ. of Wisc. Arboretum Madison, pp 338-348.

12. Dudley, T., C. D'Antonio, and S. Cooper. 1990. Mechanisms and effects of competition between two stream insects. *J. Animal Ecology* 59:849-866.
13. Erckmann WJ, LD Beletsky, GH Orians, T Johnsen, S. Sharbaugh and CM D'Antonio. 1990. Old nests as cues for nest-site selection: An experimental test with red-winged blackbirds. *Condor* 92:113-117.
14. Howald, A. and C. D'Antonio. 1990. Designing a monitoring plan for a native plant community revegetation project. In: HG Hughes and TM Bonnicksen (eds), Proceedings 1st Annual Meeting of the Soc. for Ecological Restoration, Univ. of Wisc. Arboretum Madison. pp 182-193.
15. Dudley, T. and C. D'Antonio. 1991. The effects of substrate texture, grazing and disturbance on macroalgal establishment in streams. *Ecology* 72(1): 297-309.
16. D'Antonio, C. and B. Mahall. 1991. Root overlap and interference for soil moisture between an invasive succulent and two native shrub species. *American J. Botany* 78:885-894.
17. Callaway, R. and C. D'Antonio. 1991. Shrub facilitation of coast live oak establishment in central California chaparral. *Madrono* 38:158-169.
18. D'Antonio, C. and P. Vitousek. 1992. Biological invasions by exotic grasses, the grass-fire cycle and global change. *Annual Review of Ecology and Systematics* 23:63-88.
19. D'Antonio C and W Halvorson. 1992. Revegetation of devastated areas and iceplant dominated habitat on Santa Barbara Island, Channel Islands National Park. US National Park Service Tech. Rep. NPS-WRUC/NRTR-92/46.
20. Odion, DC, Hickson DE and CM D'Antonio. 1992. Central coast maritime chaparral on Vandenberg Air Force Base: an inventory and analysis of management needs for a threatened vegetation type. Report for The Nature Conservancy and Department of Defense/Vandenberg Air Force Base.
21. D'Antonio, C.M. 1993. Mechanisms controlling invasion of coastal plant communities by the alien succulent, *Carpobrotus edulis*. *Ecology* 74:83-95.
22. D'Antonio, C.M., D. Odion and C. Tyler. 1993. Invasion of maritime chaparral by the introduced succulent, *Carpobrotus edulis*: The roles of fire and herbivory. *Oecologia* 95:14-21.
23. D'Antonio, C.M. and T. Dudley. 1993. Alien species: How inadvertent immigrants affect habitats. *Pacific Discovery* 46:8-11.
24. D'Antonio, C.M. and T. Dudley. 1994. Biological invasions as agents of change on islands versus mainlands,. In, P. Vitousek, L. Loope and H. Adersen (eds), *Islands: Biodiversity and Ecosystem Function*. Springer-Verlag, Berlin.
25. D'Antonio, C., J.T. Tunison, R. Ley and R. Loh. 1994. Ongoing research into revegetation of degraded dry forest in Hawaii. *Restoration and Management Notes*, Winter, 1994.
26. Tyler, C.M. and C.M. D'Antonio. 1995. Effect of neighbors on shrub seedling performance following fire. *Oecologia* 102:255-264.
27. Vitousek P., C.M. D'Antonio, L.L. Loope and R. Westbrooks. 1996. Biological Invasions as global environmental change. *American Scientist* 84: 468-478.
28. Christensen, N.L., A. Bartuska, J. Brown, S. Carpenter, C. D'Antonio, R. Francis, J. Franklin, J. MacMahon, R. Noss, D Parsons, C. Peterson, M Turner and R.

- Woodmansee. 1996. The Scientific basis for ecosystem management. *Ecological Applications*. 6(3): 1-34.
29. Chapin, F.S., H. Reynolds, C.M. D'Antonio and V. Eckhart. 1996. The functional role of species in terrestrial ecosystems. In, B. Walker and W. Steffen (ed), *Global Change in Terrestrial Ecosystems*, Cambridge University Press, pp 403-428.
  30. Vitousek, P.M., L. Loope, H. Adersen and C. D'Antonio. 1996. Island ecosystems: Do they represent "natural experiments" in biological diversity and ecosystem functions? In H. Mooney, H. Cushman, E. Medina, O. Sala, E-D. Schulze (eds), *Functional roles of biological diversity*. Wiley & Sons, NY. pp 245-260.
  31. Reynolds, H.L. and C .M. D'Antonio. 1996. The ecological significance of plasticity in root and shoot allocation in response to soil nitrogen. *Plant and Soil* 185:75-97.
  32. D'Antonio, C.M. 1996. Introduction. J. Luken and J. Thieret (ed), *Assessment and management of plant invasions*. Springer-Verlag, Berlin. pp 1-6.
  33. Albert, M., C.M. D'Antonio and K. Schierenbeck. 1997. Hybridization and introgression in *Carpobrotus* (Aizoaceae) species in California: Morphological evidence. *American J. Botany* 84:896-904.
  34. Gallagher, K., K. Schierenbeck and C. D'Antonio. 1997. Hybridization and introgression in *Carpobrotus* (Aizoaceae) species in California: Allozyme evidence. *American J. Botany* 84: 905-911.
  35. Reynolds, H., B. Hungate, F.S. Chapin and C. D'Antonio. 1997. Soil heterogeneity and competitive ability in a California annual serpentine grassland: vegetation response and effect. *Ecology* 78:2076-2090.
  36. Vitousek, P., C.M. D'Antonio, L.L. Loope, M. Rejmanek and R. Westbrooks. 1997. Introduced species: A significant component of human-caused global change. *New Zealand J. Ecol.* 21: 1-16.
  37. Adler, P., C.M. D'Antonio and J. T. Tunison. 1998. Understory succession following a dieback of *Myrica faya* in Hawaii Volcanoes National Park. *Pacific Science* 52:69-78.
  38. D'Antonio, C.M. and K. Haubensak. 1998. Community and ecosystem impacts of invasive non-native plant species in California. *Fremontia* 13-18.
  39. D'Antonio, C.M., R.F. Hughes, M. Mack, D. Hitchcock and P. Vitousek. 1998. Response of native species to the removal of non-native grasses in a Hawaiian woodland. *J. Vegetation Science* 9:699-712.
  40. Adler, P. and C.M. D'Antonio. 1998. Vegetation change following dieback of *Myrica faya* in Hawaii Volcanoes National Park. In: JT Tunison (ed), *Myrica faya* invasion and dieback in Hawaii Volcanoes National Park, National Park Service Tech. Rep.
  41. Freifelder, R., P. Vitousek and C. D'Antonio. 1998. Microclimate effects of fire-induced forest/grassland conversion in seasonally dry Hawaiian woodlands. *Biotropica* 30: 286-297.
  42. Ley, R. and C. M. D'Antonio. 1998. Exotic grasses alter rates of nitrogen fixation in seasonally dry Hawaiian woodlands. *Oecologia*. 113:179-187.

43. Mack, M. and C.M. D'Antonio. 1998. Impacts of biological invasions on disturbance regimes. *Trends in Ecology and Evolution* 13: 195-198.
44. Vila, M. and C.M. D'Antonio. 1998. Fitness of invasive *Carpobrotus* (Aizoaceae) in coastal California. *Ecoscience* 5:191-199.
45. Vila, M. and C. M. D'Antonio. 1998. Fruit choice and seed dispersal of invasive vs non-invasive morphotypes of *Carpobrotus* (Aizoaceae) in Coastal California. *Ecology* 79: 1053-1060.
46. Vila, M., E. Weber and C.M. D'Antonio. 1998. Flowering and mating system in hybridizing *Carpobrotus* (Aizoaceae) in coastal California. *Can J. Bot.* 76:1-6.
47. Vila, M. and C. M. D'Antonio. 1998. Hybrid vigor for clonal growth in *Carpobrotus* in coastal California. *Ecological Applications* 8: 1196-1205.
48. Weber, E. , M. Vila, M. Albert and C.M. D'Antonio. 1998. Invasion by hybridization: *Carpobrotus* in coastal California. Pp. 275-281, in U. Starfinger, K. Edwards, I. Kowarik and M. Williamson (eds). *Plant Invasions: Ecological Mechanisms and Human Responses*. Backhuys Pubs, Leiden.
49. D'Antonio, C.M., T. Dudley and M. Mack. 1999. Disturbance and biological invasions. In, L Walker (ed), *Ecosystems of disturbed ground*, Elsevier, pp. 429-468.
50. Ewel, J., D. O'Dowd, J. Bergelson, C. Daehler, C.M. D'Antonio (+16 others). 1999. Deliberate introductions of species: Research needs. *Bioscience* 49: 619-630.
51. Levine, J. and C.M. D'Antonio. 1999. Elton revisited: a review of evidence linking diversity and invasability. *Oikos* 87: 15-26.
52. Weber, E. and C. D'Antonio. 1999. Effects of salinity on germination and growth of hybridizing *Carpobrotus* spp. in California. *Am. J. Botany* 86: 86:1257-1263.
53. Weber, E. and C.M. D'Antonio. 1999. Phenotypic plasticity in hybridizing *Carpobrotus* species in coastal California. *Can. J. Bot.* 77: 1411-1418.
54. Richardson, D.M., N. Allsopp, C.M. D'Antonio, S. Milton and M. Rejmanek. 2000. Plant invasions—the role of mutualisms. *Biological Reviews*, 75:65-93.
55. D'Antonio, C.M, J.T. Tunison and R. Loh. 2000. Variation in impact of exotic grass fueled fires on species composition across an elevation gradient in Hawai'i. *Austral Ecol.* 25:507-522.
56. D'Antonio, C.M. 2000. Fire, plant invasions and global changes. In, H. Mooney and R. Hobbs (eds). *Invasive species in a changing world*, pp. 65-94. Island Press, Covela.
57. Albert, M. and C.M. D'Antonio. 2000. *Conicosium pugioniformis*. In Bossard, C., Randall J. and M. Hoschovsky (eds). *Invasive weeds in California wildlands*. Univ. of CA. Press, Berkeley.
58. Vila, M, Weber, E. and C.M. D'Antonio. 2000. Conservation implications of invasion by plant hybridization. *Biol. Inv.* 2:207-217.
59. D'Antonio, C.M., R.F. Hughes and P.M. Vitousek. 2001. Factors influencing dynamics of invasive C4 grasses in a Hawaiian woodland: role of resource competition and priority effects. *Ecology* 82:89-104.
60. Tilman, D., J. Fargione, B. Wolff, C. D'Antonio and 6 others. 2001. Forecasting agriculturally driven global environmental change. *Science* 292:281-284.

61. Mack, M., C.M. D'Antonio and R. Ley. 2001. Pathways through which exotic grasses alter N cycling in a seasonally dry Hawaiian woodland. *Ecological Applications* 11:1323-1335.
62. D'Antonio, C.M., L. Meyerson and J. Denslow. 2001. Research Priorities related to invasive exotic species. In, M. Soule, G. Orians and D. Boersma (eds). *Conservation Biology: Research priorities for the coming decade*, Island Press, Covelo, CA pp. 59-80.
63. D'Antonio, C.M., J. Levine and M. Thomsen. 2001. Propagule supply and resistance to invasion: A California botanical perspective. *J. Medit. Ecol.*, 2:233-245.
64. D'Antonio, C.M. and M. Mack. 2001. Exotic grasses potentially slow invasion of an N fixing tree into Hawaiian woodlands. *Biol. Inv.* 3:69-73.
65. Tunsion, J.T., Loh, R. and C. D'Antonio. 2001. Fire, grass invasions and revegetation of burned areas in Hawaii Volcanoes National Park. Pp. 122-131, in Proceedings of the Invasive Species Workshop: The Role of Fire in the controls and spread of invasive species. K.E. Galley and T. P. Wilson (eds). Tall Timbers Research Station Publication No. 11, Allen Press, Lawrence Kansas.
66. Reynolds, S., J. Corbin and C.M. D'Antonio. 2001. Effects of litter and temperature on germination of native and exotic grasses in a northern California prairie. *Madroño*, 48:230-235.
67. D'Antonio, C.M. and S. Kark. 2002. Impacts and extent of biotic invasions in terrestrial ecosystem. *Trends in Ecology and Evolution*, 17: 202-204.
68. Bauer, K., E. Berlow and C.M. D'Antonio. 2002. The relationship between climate and Rothrock sagebrush colonization patterns. *J. Range Management*, 55:620-625.
69. Berlow, E., C.M. D'Antonio and S.A. Reynolds. 2002. Shrub expansion in montane meadows: the interaction of local-scale disturbance and site aridity. *Ecological Applications* 12: 1103-1118.
70. D'Antonio, C.M. and L. Meyerson. 2002. Exotic species and restoration: synthesis and research needs. *Restoration Ecology* 10(4):703-713.
71. Barger, N., C.M. D'Antonio, E. Cuevas, T. Gneim and K. Brink. 2002. Role of N and P in limiting production in a derived Venezuelan savanna. *Biotropica* 34:493-501.
72. Levine, J.M. and C.M. D'Antonio. 2003. Forecasting biological invasions with increasing international trade. *Conservation Biology*, 17:322-326.
73. Levine, J.M., Vilà M., D'Antonio, C.M., Dukes, J.S., Grigulis, K., and S. Lavorel. 2003. Mechanisms underlying the impacts of exotic plant invasions. *Proceedings of the Royal Society of London* 270:775-781.
74. Mack, M. and C.M. D'Antonio. 2003. Exotic grasses alter controls over soil nitrogen dynamics in a Hawaiian woodland. *Ecological Applications* 13: 154-166.
75. Cottingham, K.L., D.L. Bade, Z.G. Cardon, C.M. D'Antonio, C.L. Dent, S.E.G. Findlay, W.K. Lauenroth, K.M. LoGiudice, R.S. Stelzer, and D.L. Strayer. 2003. Increasing modeling savvy: Strategies to advance quantitative modeling skills for professionals within ecology. Pp. 428-436 In: Canham, C.D., J.J. Cole, and W.K. Lauenroth, editors. *Models in Ecosystem Science*. Princeton (NJ): Princeton University Press.

76. Barger, N., C.M. D'Antonio, E. Cuevas and T. Gneim. 2003. Controls over establishment and growth of the Africa grass, *Melinis minutiflora*, in a Venezuelan savanna. *Plant Ecology* 11:1323-1324.
77. Mack, M. and C.M. D'Antonio. 2003. Direct and indirect effects of introduced C4 grasses on decomposition in a Hawaiian woodland. *Ecosystems* 6:503-523.
78. Alexander, J.M. and C.M. D'Antonio. 2003. Effects of stand age and fire on the seed bank of french broom (*Genista monspessulana*) in California. *Restoration Ecology* 11:185-197.
79. Alexander, J.M. and C.M. D'Antonio. 2003. Control methods for the removal of French and Scotch Broom tested in coastal California. *Ecological Restoration*, 21: 191-198.
80. Berlow, E., C.M. D'Antonio and H. Swartz. 2003. Response of herbs to shrub removal across natural and experimental variation in soil moisture. *Ecological Applications* 13: 1375-1387.
81. D'Antonio, C.M., and J.D. Corbin. 2003. Effects of plant invaders on nutrient cycling: Using models to explore the link between invasion and development of species effects. Pp. 363-384 In: Canham, C.D., J.J. Cole, and W.K. Lauenroth, editors. *Models in Ecosystem Science*. Princeton (NJ): Princeton University Press.
82. Corbin, J. and C.M. D'Antonio. 2004. Can sawdust addition increase competitiveness of native grasses? A case study from California. *Restoration ecology* 12:36-43.
83. Corbin, J. and C.M. D'Antonio. 2004. Competition between native perennial and exotic annual grasses: Implications for a historic species invasion. *Ecology* 85: 1273-1283.
84. Corbin, J.C., C.M. D'Antonio and S.J. Bainbridge. 2004. Tipping the balance in the restoration of native plants: Experimental approaches to changing the exotic:native ratio in California grassland. In, M. Gordon and L. Bartol (editors), *Experimental approaches to conservation biology*. University of California Press, Los Angeles. Pp. 154-179.
85. Brooks, M.L., C.M. D'Antonio, D.M. Richardson, J.B. Grace, J.E. Keeley, J.M. DiTomaso, R.J. Hobbs, M. Pellant, D. Pyke. 2004. Effects of invasive alien plants on fire regimes. *Bioscience* 54:677-688.
86. D'Antonio, C.M. and M. Thomsen. 2004. Ecological resistance in theory and practice. *Weed Technology* 18:1572-1577.
87. Corbin, J. and C. M. D'Antonio. 2004. Effects of invasive species on soil nitrogen cycling: implications for restoration. *Weed technology* 18:1464-1467.
88. Haubensak, K., C.M. D'Antonio and J. Alexander. 2004. Impacts of nitrogen-fixing shrubs in Washington and coastal California. *Weed Technology* 18:1475-1479.
89. D'Antonio, C.M., N. Jackson, C. Horvitz and R. Hedberg. 2004. Invasive plants in wildland ecosystems: merging the study of invasion processes with management needs. *Frontiers in Ecology and Environment* 2: 513-521.
90. D'Antonio, C.M., E. Berlow and K.A. Haubensak. 2004. Invasive exotic plant species in Sierra Nevada ecosystems. In, *Proceedings from the 2<sup>nd</sup> Sierra Nevada*

- Science Symposium, UC press. P. Stine, D. Graber, D. Murphy (eds). USDA Forest Service, Gen. Tech. Rep. PSW-GTR-193: 175-184.
91. D'Antonio, C.M. and S. Hobbie. 2005. Plant species effects on ecosystem processes: insights from invasive species. In, D. Sax, J. Stackowich and S. Gaines. Insights from invasive species. Pp. xx-xxx Sinauer, Sunderland, MA.
  92. Corbin, J., M. Thomsen, T.E. Dawson and C.M. D'Antonio. 2005. Summer water use by California coastal prairie grasses: fog, drought and community composition. *Oecologia* 145:511-521.
  93. Carruthers, R.I. and C.M. D'Antonio. 2005. Science and decision making in biological control of weeds: benefits and risks of biological control. *Biological control* 35: 181-182. (Introduction to the problem, not peer reviewed).
  94. Denslow, J.S. and C.M. D'Antonio. 2005. After biocontrol: assessing indirect effects of insect releases. *Biological Control* 35: 307-318.
  95. Hawkes, C., J. Belnap, C. D'Antonio and M.K. Firestone. 2006. Arbuscular mycorrhizal assemblages in native plant roots change in the presence of invasive exotic grasses. *Plant and Soil*, 281: 369-380.
  96. Thomsen, M., C.M. D'Antonio, K.W. Suttle, and W.P. Sousa. 2006. Ecological resistance, seed density and their interactions determine patterns of invasion in a California coastal prairie. *Ecology letters* 9:160-170.
  97. D'Antonio, C.M. and J. Chambers. 2006. Using ecological theory to manage or restore ecosystems affected by invasive plant species. In, Falk, D., M. Palmer and J. Zedler, editors. *Foundations of Restoration Ecology*. Covelo, CA: Island Press.
  98. D'Antonio, C.M. and M. M. Mack. 2006. Nutrient limitation in a fire-derived, nitrogen rich Hawaiian grassland. *Biotropica* 38: 458-467.
  99. Haubensak, K. and C.M. D'Antonio. 2006. Restoration of a coastal California grassland after invasion by nitrogen-fixing shrubs, French broom and scotch broom. *Ecological Restoration* 24: 93-99.
  100. Darrouzet-Nardi, A., C.M. D'Antonio and T.E. Dawson. 2006. Depth of water acquisition of invading shrubs and residents herbs in a Sierran meadow. *Plant and Soil* 281:35-43.
  101. Thomsen, M., J.C. Corbin and C.M. D'Antonio. 2006. The effect of soil N on competition between native and exotic perennial grasses from northern coastal California. *Plant Ecology* 186:26-35.
  102. Thomsen, M. and C.M. D'Antonio. 2007. Mechanisms of resistance to invasion in a California grassland: the roles of competitor identity, resource availability, and environmental gradients. *Oikos*, in press.
  103. Divittorio, C., J. Corbin and C.M. D'Antonio. 2007. Dispersal of exotic species: an important determinant of invasion potential. *Ecological Applications*, in press.
  104. D'Antonio, C.M., C. Malmstrom, S.A. Reynolds and J. Gerlach. 2007. Ecology of invasive non-native species in California grassland. In, M. Stromberg, J. Corbin and C.M. D'Antonio, editors. *California grassland: ecology and management*. UC Press, Berkeley, California. In press.
  105. Corbin, J., M. Stromberg, C. D'Antonio and A. Dyer. 2007. Introduction to the issues. In, M. Stromberg, J. Corbin and C.M. D'Antonio, editors. *California grassland: ecology and management*. UC Press, Berkeley, California. In press.

106. Stromberg, M., C.M. D'Antonio, T. Young, J. Wirka, P. Kephart. 2007. California grassland restoration. In, M. Stromberg, J. Corbin and C.M. D'Antonio, editors. California grassland: ecology and management. UC Press, Berkeley, California. In press.
107. Stromberg, M., C.M. D'Antonio and J. Corbin. 2007. Synthesis and future research. In, M. Stromberg, J. Corbin and C.M. D'Antonio, editors. California grassland: ecology and management. UC Press, Berkeley, California. In press.

### **Workshops & Symposia (1993-2005):**

- Islands: Biological diversity and Ecosystem Function. SCOPE workshop speaker and participant. Nassau, Bahamas, Oct. 1993.
- Biological Diversity and Ecosystem Function, Biome Synthesis workshop speaker and participant, Asilomar, March 1994.
- Biological Invasions as a Global Change. Aspen Global Change Institute, Aspen, Colorado, co-organizer with P. Vitousek and L. Loope, Sept. 1994.
- Spatial Analysis in Ecological Experiments, Bodega Marine Laboratory Field Conference, co-organizer with J.Gurevitch, B. Manly and A. Liebold. March 1995.
- Fire Effects and Fire Management in Hawaii. co-sponsor with J.T. Tunison and J. Manassian, Hawaii Volcanoes National Park, June 1995.
- Ecological Research and Restoration Ecology, Bodega Marine Laboratory Field Conference, co-organizer with A. Howald and R. Pasquinelli. March 1996.
- Non-indigenous species in California. University of CA, Jepson Herbarium, co-organizer with T. Dudley. November 3-4, 1996.
- Biological invasions and ecological restoration. Watson Symposium. Chicago Field Museum, April 1997. Speaker and participant.
- Research agenda on the invasive species problem. USFS, Kauai, Hawai'i. June 1997. Speaker and participant.
- Perspectives on biological diversity. University of California at Berkeley, Museum of Paleontology, November 1997. Speaker and participant.
- SCOPE Workshop on Global change and biological invasions. San Mateo, April 1998. Speaker and participant.
- California Grasslands Network, research update symposium, UC Davis, Jan. 1999.
- Ecological Forecasting. NCEAS workshop, Santa Barbara, May 1999. Participant.
- Ecological Forecasting, AAAS symposium, Washington DC, Feb. 2000. Speaker.
- Research Priorities in Conservation Biology. Whiteoak Plantation, Florida. April 2000. Participant & Author.
- Change in California Grasslands, NCEAS workshop. Santa Barbara, Aug. 2000 (& Mar. 2001). Co-organizer/participant.
- Invited participant and coauthor on invited talk on Fire in Hawaiian Ecosystems (first author J. Tim Tunison), Fire and Exotic Species Management Symposium, San Diego, Nov. 2000.
- Ecosystem impacts of invasive exotic plants in wildlands—characterizing the culprits. Presented at Annual Symposium on Gypsy moth and Other Invasive Species. USDA. Annapolis, Jan. 2001.

- Effects of plant invaders on nutrient cycling--exploring the link between invasion and development of species effects. Presented at Cary Conference IX, Institute for Ecosystem Studies, Millbrook NY, May 2001.
- Invited participant and coauthor of invited talk (Use of carbon addition to alter competitive balance between native and exotic species in California grasslands), Conference on Experimental approaches to exotic species management on UC Reserves, Los Angeles, CA, Sept. 2001.
- Impacts of biotic invasions: spatial assessment, base rates and consequences. Barcelona, Sept. 2001, invited speaker & participant.
- Invited participant. Salt Cedar Consortium—impacts and control of salt cedar in the USA, Denver, Colorado, March. 2002.
- Invited participant. Rangeland grazing issues in the western USA. USDA sponsored workshop, Denver, Colorado, June 2002.
- Assessing the benefits and risks of biological control of environmental weeds. Fallen Leaf Lake, Stanford Sierra Camp, September 2002. Co-organizer.
- Invited speaker, Sierra Science Conference, King's Beach, CA, October 2002.
- Invited participant, Workshop and open forum, Invasive weed issues in California and Nevada, USDA-ARS Albany California, January 2003.
- Organizer and facilitator, Invasive alien grasses in California-working group, California Invasive Plant Council meeting, King's Beach, October 2003.
- Participant, Great Basin Research Needs Summit, (USU and UNR sponsored workshop) Elko NV, Sept. 2003.
- Participant and speaker, NASA/USDA joint initiative on invasive plant species. NASA Ames, October 2003.
- Co-chair, Invasive Plants in Natural and Managed Ecosystems: Linking Science and Management. ESA/WSSA Natl. Ft. Lauderdale, Nov. 2003.
- Co-organizer, Symposium-Ecological resistance and community invasibility in theory and practice, as part of conference: Invasive Plants in Natural and Managed Ecosystems: Linking Science and Management. ESA/WSSA Natl. Ft. Lauderdale, Nov. 2003.
- Co-organizer, Science and decision making in biological control of weeds, Denver, Jan. 2004.
- Participant, NCEAS working group, Insights from Exotic species. 2004-2005.
- Participant, NCEAS working group, Fate of Nitrogen in Terrestrial Ecosystems. 2005-2006.
- Participant, California coastal grasslands restoration workshop. National Estuarine Research Lab, Moss Landing, CA. Sept. 2005.
- Participant, Ecology and Management of California Grasslands working group, Bodega Marine Reserve, Sept. 2005.
- Participant, Environmental Studies Summit. UCSB, Feb., 2006.

**Graduate Students and postdoc completing research in D'Antonio lab:**

Masters students completed: A. Christie Williams (currently professor, William and Jefferson College), Mark Albert (currently with The Nature Conservancy), Nichole Barger (currently post-doc at CU), Janice Alexander (currently with UCD extension),

Coleman Kennedy (currently in law school), Heather Swartz (currently with US Forest Service), Sandra Embry (currently in private industry).

Masters students in progress: George Thomson (UCSB), Alice Levine (UCSB).

PhD students completed: Heather Reynolds (Faculty IU), Michelle Mack (Faculty UF), Jonathan Levine (Faculty UCSB), Dan Gluesenkamp (Resource Ecologist, Audubon Canyon Ranch, President Cal-IPC), Karen Haubensak (postdoc IU), Tom Hayes (Faculty UWI, Steven's Point), Meredith Thomsen (Faculty, UWI, LaCrosse).

PhD students in progress: Joel Abraham (UCB), Nicole Molinari (UCSB).

Postdocs: Montserrat Vila (U. Sevilla), Ewald Weber (U. Basel), Ingrid Parker (UCSC), Eric Berlow (UCM), Jeff Corbin (Union College), Christine Hawkes (U Texas), Bibit Traut (SF City College), Robert Pattison (TNC), Sophie Parker (current).