

CURRICULUM VITAE
Miguel A. Altieri

PERSONAL

Date of Birth: 3 September 1950
Place of Birth: Santiago, Chile
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EDUCATION

Ph.D. 1979. University of Florida; Entomology Major, Pest Management Minor.
M.S. 1976. National University of Colombia; Agroecology Major.
B.S. 1974. University of Chile; Agronomy Major.

PRESENT POSITIONS

9/80- present Professor of Agroecology, Department of Environmental Science, Policy and Management, University of California, Berkeley.

PAST POSITIONS

9/89- 12/00 Technical Advisor, Latin American Consortium on Agroecology and Development (CLADES). Santiago, Chile. Coordination of CLADES' information exchange, collaborative research and training programs in Latin America. Involved in teaching agroecology to NGO technicians, promoting NGO-University research efforts, production, editing and dissemination of technical books, manuals and CLADES journal

9/93- 12/00 General Coordinator, United Nations Development Program Sustainable Agriculture Networking and Extension Program (SANE) also funded by International Development and Research Center (IDRC-Canada). Coordination of SANE's capacity building program in sustainable agriculture which includes regional NGO activities in Africa, Asia and Latin America aimed at building a critical mass of human resources and at crystallizing sustainable agriculture experiences and concrete demonstration modules of integrated farming systems in specific rural communities in nine countries.

11/96- Chairman NGO Committee of the Consultative Group on International
10/00 Agricultural Research (CGIAR). Chairman of the CGIAR-NGO committee promoting concrete collaborative research linkages between IARCs and NGOs, providing perspectives to CGIAR on research relevant to the rural poor and on future directions of biotechnology that serve the needs of sustainable agriculture. Now resource person for the NGOC in charge of fostering a dialogue between civil society and the CGIAR in order to arrive at a commonly agreed pro-poor research agenda.
From 2003-2007
Director of the US-Brazil Consortium on Agroecology and Sustainable Rural Development (CASRD) involving four Universities (UC Berkeley, Nebraska, UNICAMP and UF Santa Catarina) engaged in student-faculty exchanges for research and training.
Current Positions
Member of UN- FAO's Steering Committee of the Globally Ingenious Agricultural Heritage Systems (GIAHS) program with projects in Chile, Peru, Philippines, Kenya and other countries.
President of the Latin American Scientific Society of Agroecology (SOCLA), a scientific society of more than 360 members from dozens of Universities and research organization in the region promoting agroecologically based rural development programs for food sovereignty.
Member of the Board: Institute for Food and Development Policy (Food First) and Center for the Study of the Americas (CENSA)

HONORARY POSITIONS

Honorary Ph.D. 1996 Universidad Nacional de Cajamarca, Peru. Honorary member of the Accademia Nazionale Italiana di Entomologia
Invited Professor: Instituto de Sociologia y de Estudios Campesinos. Universidad de Cordoba, Spain, Facultad de Agronomia, Universidad de la Plata, Argentina, Facultad de Ciencias Agrarias y Forestales, Universidad de Chile, Santiago, Universidad Iberoamericana de Andalucia, La Rabida-Baeza, Spain, Universidad de Barcelona, Spain, University of Gastronomic Sciences, Pollenzo-Italy, Insituto Agronomico Mediterraneo, Bari-Italy, Universidad de Antioquia-Colombia, Universidad Agraria, La Molina- Peru

INTERNATIONAL VISITING POSITIONS

Visiting Scientist- Centro Agronomico Tropical de Investigacion y Ensenanza (CATIE) Turrialba, Costa Rica (June-August 2001)
Scientific Advisor- EPAGRI, Santa Catarina , Brazil (September-December 2001)
Visiting Professor , Faculty of Agricultural Sciences, University of British Columbia, Canada (September –December 2002)
Fulbright Scholar- Universidad Austral de Chile, Valdivia. Jan-April 2003 and

Universidad de Antioquia, Colombia, Jan-May 2006
Visiting Scientist- Food and Agriculture Organization (FAO), Rome. May-July 2003
Consultant for World Bank in evaluations of sustainable agriculture projects in the Mixteca region of Mexico in collaboration with CEDICAM and in the cacao region growing areas of Nicaragua, Panama and Costa Rica in collaboration with ACICAFOC.

TEACHING AND TRAINING ACTIVITIES

Biological control of pests, insect ecology, plant-insect interactions, agricultural ecology, weed ecology and management, conversion to organic farming.
Ecological and socioeconomic dimensions of small farm development. Agroecology of traditional farming systems. Sustainable rural development and food sovereignty in Latin America. Ecological risks of agricultural biotechnology and biofuels.

RESEARCH INTERESTS

Effects of vegetational diversity on insect pest populations and associated natural enemies in agroecosystems. Biological control of insects and weeds in agroecosystems through habitat management. Design of biodiversified pest stable agroecosystems. Studies on the ecological features and management of traditional and modern agroecosystems. Development of sustainable integrated farming systems for resource-poor farmers. In-situ conservation of crop genetic resources. Conservation and management of biodiversity in agroecosystems. Design of climate change resilient agroecosystems. Environmental impacts of transgenic crops and biofuels.

RESEARCH FUNDING: Since the beginning of his career as a Professor-Research Entomologist at UC Berkeley, M.A. Altieri has generated more than 1,5 million in research funds from several foundations, national, state and international donor organizations (Jessie Smith Noyes Foundation, CSFUND, Kellogg Foundation, L. J. Skaggs and Mary Skaggs Foundation, National Science Foundation, UC MEXUS, World Resources Institute, ICFID, The Japan Foundation, USDA-National Biological Control Institute, California Department of Pesticide Regulation, California Energy Commission, Organic Farming Research Foundation (OFRF), USDA-SARE, EPA-PESP, Foundation for Deep Ecology, US Department of Education-FIPSE, California Department of Food and Agriculture, and others)

PUBLICATIONS

1. Altieri, M. A., A. v. Schoonhoven and J. D. Doll. 1977. The ecological role of weeds in insect pest management systems: A review illustrated with bean (*Phaseolus vulgaris* L.) cropping systems. PANS 23(2): 195-205.
2. Altieri, M. A. and J. D. Doll. 1978. Some limitations of weed biocontrol in tropical crop ecosystems in Colombia. In: Proceedings of the IV International Symposium on Biological Control of Weeds. T. E. Freeman (Ed.), Gainesville,

Florida pp. 74-81.

3. Altieri, M. A. and J. D. Doll. 1978. The potential of allelopathy as a tool for weed management in crop fields. *PANS* 24(4): 495-502.
4. Altieri, M. A., C. A. Francis, A. v. Schoonhoven and J. D. Doll. 1978. A review of insect prevalence in maize (*Zea mays* L.) and bean (*Phaseolus vulgaris* L.) polycultural systems. *Field Crops Research* I. 33-49.
5. Altieri, M. A. and W. H. Whitcomb. 1979. The potential use of weeds in the manipulation of beneficial insects. *HortScience* 14(1): 12-18.
6. Altieri, M. A. and W. H. Whitcomb. 1979. Manipulation of insect populations through seasonal disturbance of weed communities. *Protection Ecology* 1: 185-202.
7. Altieri, M. A. and W. H. Whitcomb. 1979. Predaceous arthropods associated with Mexican tea (*Chenopodium ambrosioides* L.) in north Florida. *Florida Entomologist* 62(3): 175-182.
8. Altieri, M. A. and W. H. Whitcomb. 1979. Predaceous and herbivorous arthropods associated with camphorweed (*Heterotheca subaxillaris* Lamb.) in north Florida. *Journal of the Georgia Entomological Society* 15: 290-299.
9. Altieri, M. A. 1980. Diversification of corn agroecosystems as a means of regulating fall armyworm populations. *The Florida Entomologist* 63: 18- 24.
10. Altieri, M. A. 1980. The need for an agroecological approach to pest management. *Environmental Management* 4: 467-468.
11. Altieri, M. A. and W. H. Whitcomb. 1980. Weed manipulation for insect management in corn. *Environmental Management* 4: 483-89.
12. Altieri, M. A. 1981. Crop-weed-insect interactions and the design of pest stable cropping systems. In: *Pests, Pathogens and Vegetation*. J. M. Thresh, Ed. Pitman Publishing Co., London.
13. Altieri, M. A. 1981. Effect of time of disturbance on the dynamics of weed communities in north Florida. *Geobios* 8: 145-151.
14. Altieri, M. A. 1981. Mixed farming systems. *Environment* 23: 35-37.
15. Altieri, M. A. 1981. Weeds may augment biological control of insects. *California Agriculture* 35: 5-6, 22-24.
16. Altieri, M. A., W. J. Lewis, D. A. Nordlund, R. C. Gueldner and J. W. Todd.

1981. Chemical interactions between plants and *Trichogramma* wasps in Georgia soybean fields. *Protection Ecology* 3: 259-263.
17. Altieri, M. A. and J. W. Todd. 1981. Some influences of vegetational diversity on insect communities of Georgia soybean fields. *Protection Ecology*, Vol. 3(4): 333-338.
18. Altieri, M. A., J. W. Todd, E. W. Hauser, M. Patterson, G. A. Buchanan and R. H. Walker. 1981. Some effects of weed management and row spacing on insect abundance in soybean fields. *Protection Ecology*, Vol. 3(4): 339- 343.
19. Altieri, M. A. 1982. Ecology and management of weed populations. Student Manual for University of California, Berkeley course, PM141, "Weed Ecology and Management." Published by Eugene Memmler. 18 p.
20. Altieri, M. A. 1982. Crop diversification: a key to biological pest control. *NCAP News* 3(2): 14-16.
21. Altieri, M. A. 1982. Vegetational designs for insect-habitat management. *Environ. Mgmt.* 7(1): 3-7.
22. Altieri, M. A. and D. K. Letourneau. 1982. Vegetation management and biological control in agroecosystems. *Crop Protection* 1: 405-430.
23. Altieri, M. A., J. Hamai, A. Hajek, K. Sheehan. 1982. Biological control of insect pests. Part I. *Amer. Hort.* 61(2): 28-35.
24. Altieri, M. A., J. Hamai, A. Hajek and K. Sheehan. 1982. Biological control of insect pests. Part II. *Amer. Hort.* 61(4): 28-36.
25. Altieri, M. A., P. B. Martin and W. J. Lewis. 1982. A quest for ecologically based pest management systems. *Environ. Mgmt.* 7(1): 91-100.
26. Altieri, M. A., S. Annamalai, K. P. Katiyar and R. A. Flath. 1982. Effects of plant extracts on the rates of parasitization of *Anagasta kuehniella* eggs by *Trichogramma pretiosum* under greenhouse conditions. *Entomophaga* 27(4): 431-438.
27. Altieri, M. A., K. S. Hagen, J. Trujillo and L. E. Caltagirone. 1982. Biological control of *Limax maximus* and *Helix aspersa* by indigenous predators in a daisy field in central coastal California. *Oecologia Applicata* 3(4): 387-390.
28. Gliessman, S. R., M. A. Altieri. 1982. Polyculture cropping has advantages. *Calif. Agric.* 36(7): 14-16.

29. Altieri, M. A., D. K. Letourneau and J. R. Davis. 1983. Developing sustainable agroecosystems. *BioScience* 33(1): 45-49.
30. Altieri, M. A. 1983. Agroecology, the Scientific Basis of Alternative Agriculture. Div. of Biol. Control, U.C. Berkeley, Cleo's Duplication Services. 173 pp. (out of print).
31. Altieri, M. A. 1983. The question of small farm development: Who teaches whom? *Agriculture, Ecosystems and Environment*, 9: 401-405.
32. Altieri, M. A. and S. R. Gliessman. 1983. Effects of plant diversity on the density and herbivory of the flea beetle *Phyllotreta cruciferae* in California collard cropping systems. *Crop Protection* 2(4): 497-501.
33. Altieri, M. A., J. Davis and K. Burroughs. 1983. Some agroecological and socioeconomic features of organic farming in California: a preliminary study. *Biological Agriculture and Horticulture* 1: 97-101.
34. Flath, R., M. A. Altieri, and R. Mon. 1983. Volatile constituents of *Amaranthus retroflexus* L. *J. Agricultural and Food Chemistry* 32: 92-94.
35. Letourneau, D. K. and M. A. Altieri. 1983. Abundance patterns of a predator, *Orius tristicolor* (Hemiptera: Anthocoridae), and its prey, *Frankliniella occidentalis* (Thysanoptera: Thripidae): Habitat attraction in polycultures versus monocultures. *Environ. Entomol.* 12 (5): 1464-1469.
36. Risch, S., D. Andow and M. A. Altieri. 1983. Agroecosystem diversity and pest control: data, tentative conclusions, and new research directions. *Environ. Entomol.* 12: 625-629.
37. Altieri, M.A. 1984. Designing sustainable agroecosystems: Lessons from traditional peasants. Proc. Right to Food Conf., An Intern. Conf. on Freedom from Hunger. Concordia University, Montreal, Canada (May 25-31, 1984).
38. Altieri, M. A. 1984. Developing pest management strategies for small farmers based on traditional knowledge. Proc. Vol. XX Annual Meeting Caribbean Food Crops Society, St. Croix, Virgin Islands, pp. 47-50.
39. Altieri, M. A. 1984. Diversification of agricultural landscapes: A vital element for pest control in sustainable agriculture. Proc. Conference on Sustainable Agriculture and Integrated Farming Systems. T. Edens, Editor. Michigan State University, East Lansing.
40. Altieri, M.A. 1984. Lessons from traditional farmers. *Mendocino Country Magazine*, pp. 16-17.
41. Altieri, M. A. 1984. Patterns of insect diversity in monocultures and polycultures

of brussels sprouts. *Prot. Ecol.* 6: 227-232.

42. Altieri, M. A. 1984. Pest management technologies for peasants: A farming systems approach. *Crop Protection* 3(1): 87-94.

43. Altieri, M. A. 1984. The ecological role of weeds in agroecosystems with special emphasis on crop-weed-insect interactions. *Proc. EWRS 3rd Symp. on Weed Problems in the Mediterranean Area*, pp. 359-364.

44. Altieri, M.A. 1984. The ecology of insect pest control in organic farming systems: Toward a general theory. *Proc. 5th IFOAM International Conf., "The Importance of Biological Agriculture in a World of Diminishing Resources."* University of Kassel, West Germany (Aug. 27-30, 1984).

45. Altieri, M.A. 1984. Towards a grassroots approach to rural development in the Third World. *Agriculture and Human Values* 1: 45-48.

46. Altieri, M. A. and J. Farrell. 1984. Traditional farming systems of south central Chile with special emphasis on agroforestry. *Agroforestry Systems* 2: 3-18.

47. Altieri, M. A. and D. K. Letourneau. 1984. Vegetation diversity and pest outbreaks. *Critical Reviews in Plant Sciences* 2: 131-169.

48. Altieri M.A. and L. L. Schmidt. 1984. Abundance patterns and foraging activity of ant communities in abandoned, organic and commercial apple orchards in northern California. *Agric. Ecosystm. and Environ.* 11: 341- 352.

49. Altieri, M. A., D. K. Letourneau and J. R. Davis. 1984. The requirements of sustainable agroecosystems. In: *Agricultural Sustainability in a Changing World*, pp. 175-189. G. K. Douglass, Editor. Westview Press, Colorado.

50. Altieri, M. A., M. Lippman, L. Schmidt and I. Kubo. 1984. Antifeedant effects of nomilin on *Spodoptera frugiperda* and *Trichoplusia ni* under laboratory conditions. *Prot. Ecol.* 6: 91-94.

51. Matteson, P. C., M. A. Altieri and W. C. Gagne. 1984. Modification of small farmer practices for better pest management. *Ann. Rev. Entomol.* 29: 383-402.

52. Altieri, M. A. 1985. Agricultural development in Mexico: Key questions and perspectives for Latin America. *Proc. Seminar on Mexican Agricultural Development.* U. C. Berkeley, Sept. 5-6, 1985.

53. Altieri, M. A. 1985. Biotechnology and agroecology: Perspectives for ecological engineering and technological management of agroecosystems. *Proc. Planning Workshop on Biotechnology and Food Systems in Latin America.* Univ. of California, San Diego. Nov. 18-19, 1985.

54. Altieri, M.A. 1985. Developing pest management strategies for small farmers based on traditional knowledge. *Bull. Institute Develop. Anthropology* 3(1): 13-17.
55. Altieri, M. A. and L. L. Schmidt. 1985. Cover crop manipulation in northern California apple orchards and vineyards: Effects on arthropod communities. *Biol. Agric. and Hort.* 3: 1-24.
56. Altieri, M. A., R. C. Wilson and L. L. Schmidt. 1985. The effects of living mulches and weed cover on the dynamics of foliage and soil arthropod communities in three crop systems. *Crop Protection* 4 (2): 201- 213.
57. Altieri, M. A. and D. Nestel (eds.). 1985. Mexican agricultural development, past, present and future. *Proc. of a conference sponsored by the Program in Mexican Studies, UC Berkeley.* (in Spanish).
58. Altieri, M. A. 1986. *Agroecologia: bases científicas de la agricultura alternativa.* Centro de Estudios en Tecnologías Apropriadas para Americana Latina (CETAL) Valparaiso, Chile. (Spanish edition of Agroecology book).
59. Altieri, M. A. 1986. Ecological diversity and the sustainability of California agroecosystems. *Proc. Symposium on the sustainability of California Agriculture.* University of California. Jan. 30-31, 1986, Sacramento, CA, pp. 103-119.
60. Altieri, M. A. 1986. The grassroots approach to rural development in Latin America. *Alternatives* 13(4): 22-27.
61. Altieri, M. A. 1986. *L'Agroecologie: bases scientifiques d'une agriculture alternative.* Editions Debard, Paris (French edition of Agroecology book).
62. Altieri, M. A. and M. K. Anderson. 1986. An ecological basis for the development of alternative agricultural systems for small farmers in the Third World. *American Journal of Alternative Agriculture* 1: 30-38.
63. Altieri, M. A. and M. Liebman. 1986. Insect, Weed and Plant Disease Management in Multiple Cropping Systems, pp. 183-218. In: *Multiple Cropping Systems.* C. A. Francis, Editor. MacMillan Publ. Co., N. Y. 383 p.
64. Altieri, M. A. and L. L. Schmidt. 1986. Cover crops affect insect and spider populations in apple orchards. *Calif. Agric.* 40: 15-17.
65. Altieri, M. A. and L. L. Schmidt. 1986. Population trends, distribution patterns and feeding preferences of flea beetles (*Phyllotreta cruciferae* Goeze) in collard-wild mustard mixtures: underlying mechanisms. *Crop Protection* 5(3): 170-175.
66. Altieri, M. A. and L. L. Schmidt. 1986. The dynamics of colonizing arthropod communities at the interface of abandoned, organic and commercial apple

orchards and adjacent woodland habitats. *Agric. Ecosyst. and Environ.* 16: 29-43.

67. Altieri, M. A. 1986. Agroecology as an integrating discipline for the study of Mexican agriculture. In: *Proc. Conference on Mexican Agriculture: Ancient and Modern Contributions in Biotechnology*. Univ. California, Riverside. K. Truman (ed.).

68. Altieri, M. A. 1986. Bases ecologicas para el desarrollo de sistemas agricolas alternativos para campesinos de Latinoamerica. *Ambiente y Desarrollo* 11(3): 29-46.

69. Altieri, M. A. 1987. Biotechnology and sustainable agriculture. *American Journal of Alternative Agriculture* 1: 46 (editorial)

70. Altieri, M. A. 1987. The significance of diversity in the maintenance of the sustainability of traditional agroecosystems. *ILEIA* 3(2): 3-7.

71. Altieri, M. A. and L. C. Merrick. 1987. In situ conservation of crop genetic resources through maintenance of traditional farming systems. *Economic Botany* 4(1): 86-96.

72. Altieri, M. A., M. K. Anderson and L. C. Merrick. 1987. Peasant agriculture and the conservation of crop and wild plant resources. *Conservation Biology* 1(1): 49-58.

73. Altieri, M. A., F. J. Trujillo and J. Farrell. 1987. Plant-insect interactions and soil fertility relations in agroforestry systems: Implications for the design of sustainable agroecosystems. In: *Agroforestry: realities, potentials and possibilities*. H. L. Gholz, editor. Martinus Nijhoff Publishers, Dordrecht.

74. Altieri, M. A. and F. J. Trujillo. 1987. The agroecology of corn production in Tlaxcala, Mexico. *Human Ecology* 15(2): 189-220.

75. Altieri, M. A. and L. L. Schmidt. 1987. Mixing cultivars of broccoli reduces cabbage aphid populations. *Cal. Agric.* 41(11/12): 24-26.

76. Altieri, M. A. and M. Sands. 1987. Self-reliance and the small organic farm in Chile. In: *Experiences in Success*. Rodale International.

77. Altieri, M. A. 1987. Agricultura alternativa nos E.U.A. avancos e perspectivas. In: *Agricultura Alternativa. Anais do Seminario de Pesquisa*. 10 a 12 de Dezembro de 1984, Londrina, Brasil. p. 117-151. Fundacao Inst. Agron. do Parana, IAPAR, Brasil.

78. Nordlund, D. A., W. J. Lewis and M. A. Altieri. 1988. Influences of plant produced allelochemicals on the host and prey selection behavior of entomophagous insects. In: *Novel aspects of insect-plant interactions*. P. Barbosa and D. Letourneau.

Editor. J. Wiley and Sons. New York.

79. Altieri, M. A. 1988. Beyond agroecology: making sustainable agriculture part of a political agenda. *Amer. J. Alt. Ag.* 3(4):142-143.
80. Altieri, M. A. 1988. The dynamics of insect populations in crop systems subject to weed interference. In: *Plant Stress-Insect Interactions*. E. A. Heinrichs, Editor. Wiley, New York.
81. Rodriguez, J. A., M. A. Altieri, S. Siques and C. Barrera. 1988. Agroecological typification of traditional farming systems in central Chile. *Proc. 6th IFOAM International Scientific Conference, Univ. California, Santa Cruz*. P. Allen (ed.)
82. Altieri, M. A. 1988. The impact, uses and ecological role of weeds in agroecosystems. In: *Weed Management in Agroecosystems: Ecological Approaches*. M. A. Altieri and M. Z. Liebman (eds.). CRC Press, Boca Raton, Fl.
83. Altieri, M. A. and M. Z. Liebman. 1988. Weed management: Ecological guidelines. In: *Weed Management in Agroecosystems: Ecological Approaches*. M. A. Altieri and M. Z. Liebman (eds.). CRC Press, Boca Raton, Fl.
84. Altieri, M. A. and L. C. Merrick. 1988. Agroecology and in-situ conservation of native crop diversity in the Third World. In: *Biodiversity*. E. Wilson and F. Peter (eds.). National Academy of Sciences, Washington.
85. Gold, C. S., M. A. Altieri and A. C. Bellotti. 1988. Relative oviposition rates of the cassava hornworm, *Erinnyis ello* (Lep.: Sphingidae), and accompanying parasitism by *Telenomus sphingis* (Hym.: Scelionidae) in upper and lower leaf surfaces of cassava. *Entomophaga* 34(1): 73-76.
86. Altieri, M.A. 1988. La agroecologia y la conservacion de la diversidad genetica nativa a los agroecosistemas de America Latino. Presented "Conservacion de Recursos Geneticos de Cultivos en America Latina". 25-30 Septiembre, 1988. Santiago, Chile.
87. Altieri, M.A. 1989. Sustainable agriculture: overview. *Environment* 31(3):2-3.
88. Altieri, M. A. 1989. Agroecology: a new research and development paradigm for world agriculture. *Agriculture, Ecosystems and Environment*, 27: 37-46.
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90. Altieri, M. A. and A. Yurjevic. 1989. The Latin American Consortium on

Agroecology and Development: a new institutional arrangement to foster sustainable agriculture among resource-poor farmers. *Bull. of the Institute of Development Anthropology*. 7: 17-19.

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95. Gold, C. S., M. A. Altieri and A. C. Bellotti. 1989. The effects of intercropping and mixed varieties of predators and parasitoids of cassava whitefly (Hemiptera: Aleyrodidae) in Colombia. *Bull. Ent. Res.* 79: 115-121.

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103. Altieri, M.A. 1990. The agroecological foundations of alternative agriculture in California. The 1990 Australian Organic Agriculture Conference. Univ. Adelaide, Adelaide, S. Australia, 23-30 Sept 1990. Vol. 1. Keynote Papers.
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