

## CURRICULUM VITAE

Randall A. Kramer

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**Date of Birth:** April 8, 1953  
Knoxville, Tennessee

**Education:** Ph.D., Agricultural Economics, University of California, Davis, 1980  
M.E., Economics, North Carolina State University, 1976  
B.A., Economics, University of North Carolina, 1975

### **Current Position:**

Professor of Environmental Economics, Nicholas School of the Environment, Duke University, (with secondary appointments in the Duke Global Health Institute and the Department of Economics). *Responsibilities:* teaching and research in environmental economics, environmental health, environmental policy analysis, and development economics.

### **Previous Experience:**

Visiting Scholar, Business and Environment Initiative, IUCN – World Conservation Union, Gland, Switzerland, 2001-2002.

Associate Professor, Nicholas School of the Environment, Duke University, 1988-1996.

Visiting Economist, Directorate General of Forest Protection and Nature Conservation, Ministry of Forestry, Government of Indonesia, 1995-1996.

Visiting Fellow, Economic Growth Center, Yale University, 1987-1988.

Associate Professor, Department of Agricultural Economics, Virginia Polytechnic Institute and State University, 1985-1988.

Assistant Professor, Department of Agricultural Economics, Virginia Polytechnic Institute and State University, 1980-1985.

Post Graduate Research Agricultural Economist, University of California, Davis, 1978-1980.

***Professional Societies:***

Association of Environmental and Resource Economists  
 American Economics Association  
 American Agricultural Economics Association  
 Society for Risk Analysis

***Honorary Societies:***

Phi Beta Kappa  
 Phi Eta Sigma  
 Gamma Sigma Delta  
 Sigma Xi

***Selected Professional Activities:***

- 2009:** Faculty Leader, Global Environmental Health Signature Research Initiative, Duke Global Health Institute
- 2007-2009:** Editorial Board, Journal of Natural Resources Policy Research
- 2007:** Consultant to the Organization for Economic Cooperation and Development (OECD) for report on international cost-sharing for biodiversity conservation.
- 2002-2007:** Chair, Environmental Economics and Policy Program, Nicholas School (and 1990-92, 1996-98)
- 2004-2005:** Advisor to the World Health Organization on Reporting of DDT Use Under the Stockholm Convention on Persistent Organic Pollutants
- 2001-2004:** Consultant to the World Conservation Union (IUCN) on economic incentives for biodiversity conservation in Bulgaria and Romania
- 2001-2008:** Consultant to the World Bank Group on efforts to encourage private sector biodiversity conservation in Tanzania, Mozambique and Mongolia.
- 1999-2000:** Chair, Division of Environmental Sciences and Policy, Nicholas School
- 1999-2007:** Board of Directors, Coral Reef Alliance
- 1998-2001:** Board of Directors, Association of Environmental and Resource Economists
- 1998-2009:** Consultant to the World Bank Group on ecotourism and sustainable financing for Komodo National Park, Indonesia.
- 1998:** Consultant to the Packard Foundation on the development of a marine and coastal biodiversity funding strategy.

- 1992-1995:** Director of Undergraduate Studies, Environmental Sciences and Policy Program, Duke University.
- 1994-1995:** Consultant to Winrock International and U.S. Agency for International Development for a report on the economics of biodiversity
- 1992:** Consultant to the Asian Development Bank on Indonesia Biodiversity Conservation Project.
- 1990-1991:** Consultant to the World Bank on the preparation of a global forest policy paper.
- 1989-1996:** Member, USDA Resource Policy Consortium.
- 1989-1995:** Editorial Board, Journal of Sustainable Agriculture.
- 1986-1987:** Consultant to U.S. Fish and Wildlife Service on economic analysis of wetlands.
- 1985-1988:** Consultant to U.S. Department of the Interior, Office of Policy Analysis, Washington, D.C., for economic analysis on a congressionally mandated study of the effects of federal policies on the preservation and development of wetlands.
- 1985:** Consultant to U.S. Agency for International Development to provide technical assistance on research and graduate instruction to the Post Graduate Institute of Agriculture, University of Peradenya, Sri Lanka.
- 1984:** Consultant to the Organization of American States, Washington, D.C. for preparation of manual on incorporating natural disaster information into benefit-cost analysis.
- 1982:** Consultant to International Food Policy Research Institute, Washington, D.C., for preparation of report on crop insurance programs.

***Primary Research Interests:***

Environmental and Resource Economics  
 Global Environmental Health  
 Ecosystem Services  
 Benefit-Cost Analysis  
 Environmental Policy Analysis  
 Economic Development

***Courses Taught:***

Economics of Environmental Management  
 Economic Analysis of Environmental Policy  
 Resource and Environmental Economics  
 Advanced Environmental Economics  
 Social Science Surveys for Environmental Management  
 Environmental Social Science Research Methods

Introduction to Environmental Sciences and Policy  
 Resource and Environmental Policy  
 Seminar on Economic Valuation of the Environment  
 Seminar on Biodiversity Management  
 Seminar on Environmental Equity

**Awards:**

Duke University Scholar Teacher of the Year, 2004  
 Outstanding Teacher of the Year, 1989 and 1998, Nicholas School of  
 the Environment

**Books:**

R.A. Kramer, C. van Schaik, and J. Johnson, editors, *Last Stand: Protected Areas and the Defense of Tropical Biodiversity*, Oxford University Press, 1997.

**Articles:**

Y. Kraus Elsin, R. A. Kramer, W.S. Jenkins, "Valuing Drinking Water Provision as an Ecosystem Service in the Neuse River Basin," *Journal of Water Resource Planning and Management* (forthcoming).

R.A. Kramer, K.L. Dickinson, R.M. Anderson, V.G. Fowler, M.L. Miranda, C.M. Mutero, K.A. Saterson, and J.B. Wiener, "Using Decision Analysis to Improve Malaria Control Policy Making," *Health Policy* 92 (2009): 133-140.

R.A. Kramer, J.I. Eisen-Hecht, and G.E. Vaughn, "Economics of Ecosystem Management for the Catawba River Basin," chapter 6 in *Environmental Economics for Watershed Protection*, H. Thurston, M.T. Heberling and A. Schrecongost, editors, CRC/Taylor Francis Press, 2009.

R.A. Kramer, E.O. Sills, and S.K. Pattanayak, "National Parks as Conservation and Development Projects: Gauging Local Support," chapter 7 in *Conserving and Valuing Ecosystem Services and Biodiversity - Economic, Institutional and Social Challenges*, K.N. Ninan, editor, London: Earthscan Press, 2009.

K.K. Karanth, R.A. Kramer, S.S. Qian, and N.L. Christensen, "Examining Conservation Attitudes, Perspectives, and Challenges in India," *Biological Conservation*, 41(2008): 2357-67.

R. A. Kramer, "Economic Valuation of Ecosystem Services," chapter 11 in *Sage Handbook of Environment and Society*, Jules Pretty, et al. editors, 2008.

C. Liese, M.D. Smith, and R.A. Kramer, "Open Access in a Spatially Delineated Artisanal Fishery: The Case of Minahasa, Indonesia," *Environment and Development Economics*, 12: (2007):123-143.

S. Pattanayak, K. Dickinson, C. Corey, B. Murray, E. Sills, and R. Kramer, "Deforestation, Malaria, and Poverty: A Call for Transdisciplinary Research to Support the Design of Cross-sectoral Policies," *Sustainability: Science, Policy and Practice* 2 (Fall 2006).

I. Kochi, B. Hubbell, and R. Kramer, "An Empirical Bayes Approach to Combining and Comparing Estimates of the Value of a Statistical Life for Environmental Policy Analysis," *Environmental and Resource Economics* 34 (2006): 385-406.

S. Cassels, S. Curran, and R.A. Kramer. "Do Migrants Degrade Coastal Environments? Migration, Natural Resource Extraction, and Poverty in North Sulawesi, Indonesia." *Human Ecology* 3 (2005): 329-363.

K. Saterson, N.L. Christensen, R.B Jackson, R.A. Kramer, S.L. Pimm, M.D. Smith, and J.B. Wiener, "Disconnects in Evaluating the Relative Effectiveness of Conservation Strategies," *Conservation Biology* 18 (2004): 597-599.

S.K. Pattanayak, E.O. Sills and R.A. Kramer, "Seeing the Forest for the Fuel," *Environment and Development Economics* 9 (2004): 155-179.

S.K. Pattanayak, E.O. Sills, A.D. Mehta, and R.A. Kramer, "Local Uses of Parks: Uncovering Patterns of Household Production from Forests of Siberut, Indonesia," *Conservation and Society* 1 (2003): 209-222.

R.A. Kramer and S.M.H. Simanjuntak, "Human Migration and Resource Use In Sulawesi Fishing Communities," pp. 739-740 in Proceedings of the Ninth International Coral Reef Symposium, Bali, Indonesia, 2000, Vol. 2, Published by the Indonesian Institute of Sciences, January 2003.

R. Kramer, T. Holmes and M. Haefele, "Contingent Valuation Estimation of Forest Ecosystem Protection," E. Sills and K. Abt (eds.) *Forests in a Market Economy*. Kluwer Academic Publishers, Dordrecht, Netherlands, 2003.

R.A. Kramer and J.I. Eisen-Hecht, "Estimating the Economic Value of Water Quality in the Catawba River Basin," *Water Resources Research* 38 (2002): 1-10.

R.A. Kramer, S.M.H. Simanjuntak, and Christopher Liese, "Migration and Fishing in Indonesian Coastal Villages," *Ambio* 31(June 2002): 367-371.

T. Arin and R.A. Kramer, "Divers' Willingness to Pay to Visit Marine Sanctuaries: An Exploratory Study," *Ocean and Coastal Management* 45 (2002): 171-183.

R. Kramer, J. Langholz, and N. Salafsky, "The Role of the Private Sector in Protected Area Establishment and Management: A Conceptual Framework for Analyzing Effectiveness," in *Making Parks Work: Strategies for Preserving Tropical Nature*, J.T. Terborgh, C. van Schaik, L. Davenport, and M. Rao, editors, Island Press, 2002.

J.I. Eisen-Hecht and R.A. Kramer, "A Cost-Benefit Analysis of Water Quality Protection in the Catawba Basin," *Journal of the Water Resources Association* 38(2002): 453-465.

S.K. Pattanayak and R.A. Kramer, "Worth of Watersheds: A Producer Surplus Approach for Valuing Drought Mitigation in Eastern Indonesia," *Environment and Development Economics* 6(2001): 123-146.

S. Pattanayak and R. Kramer, "Pricing Ecological Services: Willingness to Pay for Drought Control Services in Indonesia," *Water Resources Research* 37 (2001): 771-778.

D.W. Reaves, R.A. Kramer, and T.P. Holmes, "Does Question Format Matter? Valuing an Endangered Species," *Environmental and Resource Economics* 14(1999): 365-383.

J.E. Aldy, R.A. Kramer, and T.P. Holmes, "Environmental Equity and the Conservation of Unique Ecosystems: An Analysis of the Distribution of Benefits for Protecting Southern Appalachian Spruce-Fir Ecosystems," *Society and Natural Resources* 12: (1999): 93-106.

R. Kramer and E. Mercer, "Valuing a Global Environmental Good: U.S. Residents' Willingness to Pay to Protect Tropical Rain Forests," *Land Economics*, 73 (1997): 196-210. Reprinted in R.T. Carson, ed., *The Stated Preference Approach to Environmental Valuation*, Hampshire: Ashgate Publishing, 2007.

P. Shyamsundar and R.A. Kramer, "Biodiversity Conservation - At What Cost? A Study of Households in the Vicinity of Madagascar's Mantadia National Park," *Ambio* 26(1997): 180-184.

R.A. Kramer, D. Richter, S. Pattanayak, and N. Sharma, "Ecological and Economic Analysis of Watershed Protection in Eastern Madagascar," *Journal of Environmental Management*, 49 (1997): 277-295.

R.A. Kramer and C.P. van Schaik, "Preservation Paradigms and Tropical Rain Forests," chapter 1 in R.A. Kramer, C. van Schaik, and J. Johnson, editors, *Last Stand: Protected Areas and the Defense of Tropical Biodiversity*, Oxford University Press, 1997.

R.A. Kramer and N. Sharma, "Tropical Forest Biodiversity Protection: Who Pays and Why," chapter 8 in Kramer, C. van Schaik, and J. Johnson, editors, *Last Stand: Protected Areas and the Defense of Tropical and Biodiversity*, Oxford University Press, 1997.

P.J. Ferraro and R.A. Kramer, "Compensation and Economic Incentives: Reducing Pressure on Protected Areas," chapter 9 in R.A. Kramer, C. van Schaik, and J. Johnson, editors, *Last Stand: Protected Areas and the Defense of Tropical Biodiversity*, Oxford University Press, 1997.

P. Shyamsundar and R.A. Kramer, "Tropical Forest Protection: An Empirical Analysis of the Costs Born by Local People," *Journal of Environmental Economics and Management*, 31 (1996): 129-144.

R.A. Kramer, E. Mercer, and N. Sharma, "Valuing Tropical Rain Forest Protection Using the Contingent Valuation Method," chapter 10 in W. L. Adamowicz, et al., editors, *Forestry, Economics and the Environment*, Wallingford, U.K.: CAB International, 1996.

T. Holmes and R.A. Kramer, "Contingent Valuation of Ecosystem Health," *Ecosystem Health* 2(1996): 56-60.

P.J. Parks, R.A. Kramer, and R. Heimlich, "Simulating Cost Effective Wetlands

Reserves," *Natural Resources Modeling*, 9 (1995): 81-96.

T. Holmes and R. Kramer, "An Independent Sample Test of Yea-Saying and Starting Point Bias in Dichotomous-Choice Contingent Valuation," *Journal of Environmental Economics and Management*, 28 (1995): 121-132.

E. Mercer, R. Kramer, and N. Sharma, "Rain Forest Tourism — Estimating the Benefits of Tourism Development in a New National Park in Madagascar," *Journal of Forest Economics*, 1(1995): 239-269.

P. Parks and R. Kramer, "A Policy Simulation of the Wetlands Reserve Program," *Journal of Environmental Economics and Management*, 28 (1995): 223-240.

M. Zhu, D.B. Taylor, S.C. Sarin, and R.A. Kramer, "Chance Constrained Programming Models for Risk-Based Economic and Policy Analysis," *Agricultural and Resource Economics Review* 23 (1994): 58-65.

K. Reichelderfer and R.A. Kramer, "Agricultural Resource Policy," chapter 10 in G.A. Carlson, D. Zilberman, and J.A. Miranowski, editors, *Agricultural and Environmental Resource Economics*, New York: Oxford University Press, 1993.

R.A. Kramer and L. Shabman, "The Effects of Agricultural and Tax Policy Reform on the Economic Return to Wetland Drainage in the Mississippi Delta Region," *Land Economics*, 69 (1993): 249-262.

R. Kramer and V. Ballabh, "Management of Common-Pool Forest Resources," in G.H. Peters and B.F. Stanton, editors, *Sustainable Agricultural Development: The Role of International Cooperation*, Brookfield, Vermont: Dartmouth Publishing Co, 1992.

R. Kramer, R. Healy, and R. Mendelsohn, "Forest Valuation," chapter 10 in Narendra Sharma, editor, *Managing the World's Forests*, World Bank Natural Resources Development Series, Arlington, VA.: Kendall Hunt, 1992.

N. Sharma, R. Rowe, M. Grut, R. Kramer and H. Gregerson, "Conditions for Sustainable Development," chapter 18 in Narendra Sharma, editor, *Managing the World's Forests*, World Bank Natural Resources Development Series, Arlington, VA.: Kendall Hunt, 1992.

S.M.M. Zuhair, D.B. Taylor, and R.A. Kramer, "Choice of Utility Functional Form: Its Effect on Classification of Risk Preferences and the Prediction of Farmer Decisions." *Agricultural Economics*, 6(1992): 333-344.

R.A. Kramer, A.L. Florey, and B.E. Utria, "Natural Hazard Risk Reduction in Project Formulation and Evaluation," chapter 2 in Steven O. Bender, editor, *Primer on Natural Hazard Management in Integrated Regional Development Planning*, Washington, DC: Organization of American States, 1991.

P.J. Parks and R.A. Kramer, "Costs of Wetlands Protection and Restoration Policies," in R.E. Heimlich, ed., *A National Policy of "No Net Loss of Wetlands,"* U.S. Department of Agriculture, Economic Research Service, Staff Report No. 9149, August 1991.

R.A. Kramer, "Decision Analysis as a Tool in Integrated Environmental Management," in *Integrated Environmental Management*, John Cairns, Jr, and Todd V. Crawford, editors, Chelsea, Michigan: Lewis Publishers, 1991.

J.M. Halstead, S.S. Batie, D.B. Taylor, C.D. Heatwole, P.L. Diebel, and R.A. Kramer, "Impacts of Uncertainty on Policy Costs of Managing Nonpoint Source Ground Water Contamination," *Journal of Sustainable Agriculture*, 1(1991): 29-48.

P.E. Norris and R.A. Kramer, "The Elicitation of Subjective Probabilities with Applications in Agricultural Economics," *Review of Marketing and Agricultural Economics*, 58(1990): 127-147.

J.M. Halstead, R.A. Kramer, and S.S. Batie, "Logit Analysis of Information in Animal Waste Management," *Production Agriculture*, 3(1990): 540-544.

R.A. Kramer and Minkang Zhu, "Strategies for Addressing Environmental Issues Associated with Agricultural Development, in China's Rural Development Miracle, John Longworth, editor, St. Lucia, Queensland: University of Queensland Press, 1989 (also published in Chinese).

R.A. Kramer and A.L. Grieco, "Consideration of Natural Disasters in the Economic Analysis of Agricultural Development Projects," in *Government Intervention in Agriculture: Cause and Effect*, B. Greenshields and M. Bellamy, editors, Brookfield, Vermont: Gower, 1989.

H. McDowell, R.A. Kramer, and J.M. Price. "An Analysis of U.S. Farm Income Policies: Historical, Market Determined, and Sector-Wide Stabilization." *Southern Journal of Agricultural Economics*, 21(1989): 1-20.

R.A. Kramer, "An International Overview of Soil Conservation Policy," in *Agriculture in a Turbulent World Economy*, Allen Maunder and Ulf Reuborg, editors, Brookfield, Vermont: Gower, 1987.

W.T. McSweeney, D.E. Kenyon, and R.A. Kramer, "Toward an Appropriate Measure of Uncertainty in a Risk Programming Model," *American Journal of Agricultural Economics*, 69(1987): 87-96.

R.A. Kramer and L. Shabman, "Incentives for Agricultural Development of the Nation's Wetlands: A Case Study of the Bottomland Hardwoods of the Lower Mississippi River Valley," chapter 6 in *Agriculture and the Environment*, T. Phipps, P. Crosson, and K. Price, editors, Washington, D.C.: Resources for the Future, 1986.

B.L. Gardner and R.A. Kramer, "Experience with Crop Insurance Programs in the United States," chapter 12 in *Crop Insurance for Agricultural Development*, P. Hazell, C. Pomareda, and A. Valdes, editors, Baltimore: Johns Hopkins University Press, 1986.

S.S. Batie, L.S. Shabman, and R.A. Kramer, "U.S. Agricultural and Natural Resource Policy: Past and Future," in *The Dilemmas of Choice*, K.A. Price, editor, Washington, D.C.: Resources for the Future, 1985. Also chapter 5 in *The Future of the North American Granary: Politics, Economics, and Resource*

*Constraints in North American Agriculture*, C.F. Runge, editor, Ames: Iowa State University Press, 1986. Also published in Italian in *Scenari della Societa' e del Territorio*.

R.A. Kramer, W.T. McSweeney, and R.W. Stavros, "Soil Conservation with Uncertain Revenue and Input Supplies: Reply." *American Journal of Agricultural Economics*, 68(1986): 361-363.

W.T. McSweeney and R.A. Kramer, "The Integration of Farm Programs for Achieving Soil Conservation and Nonpoint Pollution Control Objectives," *Land Economics*, 62(1986): 159-173.

R.A. Kramer, "Reexamining Agricultural Policy: Selected Issues and Alternatives," *American Journal of Agricultural Economics*, 68(1986): 1088-1095.

R.A. Kramer and R.D. Pope, "Participation in Farm Commodity Programs: A Stochastic Dominance Analysis: Reply." *American Journal of Agricultural Economics*, 68(1986): 189-190.

E. Segarra, R.A. Kramer, and D.B. Taylor, "A Stochastic Programming Analysis of the Farm Level Implications of Soil Erosion Control," *Southern Journal of Agricultural Economics*, 17(1985): 147-154.

C.R. Greene, R.A. Kramer, G.W. Norton, E.G. Rajotte, and R.M. McPherson, "An Economic Analysis of Soybean Integrated Pest Management," *American Journal of Agricultural Economics*, 67(1985): 567-572.

W.R. Kerns and R.A. Kramer, "Farmers' Attitudes Toward Nonpoint Pollution Control and Participation in Cost-Share Programs," *Water Resources Bulletin*, 21(1985): 207-215.

R.A. Kramer and S.S. Batie, "The Cross-Compliance Concept in Agricultural Programs from the New Deal to the Present," *Agricultural History*, 59(1985): 307-319.

R.A. Kramer, "Shifting Foundations of Agricultural Policy Analysis When Risk Markets are Incomplete: Discussion," *American Journal of Agricultural Economics*, 64(1985).

O. Capps, Jr. and R.A. Kramer, "Analysis of Food Stamp Participation Using Qualitative Choice Models," *American Journal of Agricultural Economics*, 67(1985): 49-59.

C.R. Greene, E.G. Rajotte, G.W. Norton, R.A. Kramer, and R.M. McPherson, "Revenue and Risk Analysis of Soybean Pest Management Options in Virginia," *Journal of Economic Entomology*, 78(1985): 10-18.

B.L. Gardner, R.E. Just, R.A. Kramer, and R.D. Pope, "Agricultural Policy and Risk," chapter 16 in *Risk Management in Agriculture*, P.J. Barry, editor, Ames: Iowa State University Press, 1984.

R.A. Kramer, W.T. McSweeney, W.R. Kerns, and R.W. Stavros, "An Evaluation of Alternative Policies for Controlling Agricultural Nonpoint Source Pollution," *Water*

*Resources Bulletin*, 20(1984): 841- 846.

R.A. Kramer, "Crop Insurance as a Strategy for Agricultural Development," in *Rural Development: Growth and Equity*, B.L. Greenshields and Margot A. Bellamy, editors, Brookfield, Vermont: Gower, 1983.

R.A. Kramer, W.T. McSweeney, and R.W. Stavros, "Soil Conservation with Uncertain Revenues and Input Supplies," *American Journal of Agricultural Economics*, 65(1983): 694-702.

R.A. Kramer, "Federal Crop Insurance, 1938-1982," *Agricultural History*, 57(1983): 181-200.

R.A. Kramer and R.D. Pope, "Crop Insurance for Managing Risk," *Journal of the American Society of Farm Managers and Rural Appraisers*, 46(1982): 34-40.

R.A. March, R.A. Kramer, and L.L. Geyer, "Non-Point Source Water Pollution and Section 208 Planning: Legal and Institutional Issues," *Agricultural Law Journal*, 2(1981): 324-355.

R.A. Kramer and R.D. Pope, "Participation in Farm Commodity Programs: A Stochastic Dominance Analysis," *American Journal of Agricultural Economics*, 65(1981): 119-128.

R.D. Pope, R.A. Kramer, R.D. Green, and B.D. Gardner, "An Evaluation of Econometric Models of U.S. Farmland Prices," *Western Journal of Agricultural Economics*, 4(1979): 117-129.

R.D. Pope and R.A. Kramer, "Production Uncertainty and Factor Demands for the Competitive Firm," *Southern Economic Journal*, 46(1979): 489-501.

### **Monographs:**

B. Murray, A. Jenkins, R. Kramer, and S. P. Faulkner. *Valuing Ecosystem Services from Wetland Restoration in the Mississippi Alluvial Valley*. Nicholas Institute of Environmental Policy Solutions, Ecosystem Services Series, NI R 09-02, February 2009, <http://www.nicholas.duke.edu/institute/msvalley.pdf>.

R.A. Kramer and A. Jenkins. "Ecosystem Services, Markets, and Red Wolf Habitat: Results from a Farm Operator Survey." Nicholas Institute of Environmental Policy Solutions, Ecosystem Services Series, NI R 09-01, January 2009, <http://www.nicholas.duke.edu/institute/redwolf.pdf>

R.A. Kramer, J. Huber, J. I. Eisen-Hecht, *Toward an Improved Understanding of Wetland Restoration Choice Behavior of Landowners: A Hierarchical Bayes Approach*, Final Report Submitted to the US Department of Agriculture, National Research Initiative, CSRES, Grant #2003-35400-13867, December 2005.

Biscoe, Melanie L., Clifford M. Mutero, and Randall A. Kramer, *Current Policy and Status of DDT Use for Malaria Control in Ethiopia, Uganda, Kenya and South Africa*, Colombo, Sri Lanka: International Water Management Institute, Working Paper #95, 2005.

R. A. Kramer, S. Pattanayak, E. Sills, and S. Simanjuntak, *The Economics of the Siberut and Ruteng Protected Areas: Final Report*, Directorate General of Forest Protection and Nature Conservation, Government of Indonesia, Biodiversity Conservation Project in Flores and Siberut, Asian Development Bank Loan No. 1187-INO, August 1997, 109 pages.

R. Kramer, N. Sharma, and M. Munasinghe, editors, *Valuing Tropical Forests: Methodology and Case Study of Madagascar*, World Bank Environment Paper 13, Washington, D.C., 1995, 66 pages.

P.J. Ferraro and R.A. Kramer, *A Framework for Affecting Household Behavior to Promote Biodiversity Conservation*, Prepared for U.S. Agency for International Development, Africa Bureau, Environmental and Natural Resources Policy and Training Project (EPAT), Arlington, Virginia, June 1995, 41 pages.

R. Kramer, N. Sharma, P. Shyamsundar, and M. Munasinghe, *Cost and Compensation Issues in Protecting Tropical Rainforests: Case Study in Madagascar*, World Bank, Environment Department Occasional Report, 1993.

G.E. Groover, D.E. Kenyon, and R.A. Kramer, *An Evaluation of Production and Marketing Strategies for Eastern Virginia Cash Grain Producers*, Virginia Polytechnic Institute and State University, College of Agriculture and Life Sciences, Virginia Agricultural Experiment Station Bulletin 89-1, 1989.

P.H. Gardner, G.W. Hoagland, and R.A. Kramer, *The Distribution of Benefits from the 1982 Federal Crop Programs*. U.S. Senate, Committee on the Budget, 98th Congress, 2d session, Senate Print 98-238, November 1984, 83 pages.

### **Research Contracts and Grants**

“Malaria Decision Analysis Support Tool (MDAST): Evaluating Health, Social and Environmental Impacts and Policy Tradeoffs” (Principal investigator with M.L. Miranda, V. Fowler, C. Mutero, J. Weiner, R. Anderson), World Health Organization, 2009-2012.

“A Bioeconomic Approach to Managing Insecticide Resistance in Malaria Control,” (Co-principal investigator with Katia Koelle), Center for the Comparative Biology of Vulnerable Populations, 2008-2009.

“Ecosystem Services and Markets Associated with Red Wolf Habitat in North Carolina,” Defenders of Wildlife, 2008-09.

“Assessment of U.S. Habitat Conservation and Provision of Ecosystem Services,” (Co-investigator with D. Urban, J. Goodall, L. Olander and J. Fay), Wildlife Habitat Policy Research Program, Doris Duke Foundation, 2006-2008.

“Economic Valuation of Payments for Ecosystem Services from Wetlands in the Lower Mississippi Alluvial Valley, USA,” (Co-Principal Investigator with B. Murray), 2006-2008.

“Frameworks for Complex Environmental Health Decision Making,” Provost’s

Common Fund, (Principal Investigator with M. Miranda, R. Anderson, V. Fowler, and J. Wiener), 2006-2008.

"Evaluating the Environmental and Health Impacts of Alternative Malaria Control Strategies," Duke Environmental Health Sciences Research Center, (Principal Investigator with K. Saterson, J. Wiener, V. Fowler), 2005-2006.

"Economic Tools for Valuing and Managing Ecosystems: Improving Water Management in North Carolina," Environmental Defense, 2004-2005.

"Toward an Improved Understanding of Wetland Restoration Choice Behavior of Landowners: A Hierarchical Bayes Approach, U.S. Department of Agriculture, National Research Initiative, (Principle Investigator with Joel Huber), 2003-2005.

"Designing Programs to Improve Water Quality through Wetlands Restoration," North Carolina Water Resources Research Institute, 2003-2004.

"Meta Regression Analysis of Empirical Bayes Estimates of the Value of Statistical Life," U.S. Environmental Protection Agency, 2002-2003.

"Health and Environment in Rural Indonesia," Duke Center for Environmental Solutions, (Co-Principal Investigator with S. Pattanayak and V. Fowler), 2002-2003.

"Assessing Landowners' Preferences for Different Wetlands Restoration Strategies in North Carolina," U.S. Forest Service, 1999-2001.

"Migration, Fertility and Resource Use in Coastal Communities of North Sulawesi, Indonesia," John D. and Catherine T. MacArthur Foundation, (Co-Principal Investigator with S.M.H. Simanjuntak), 1998-2001.

"Selection of Wetland Restoration Sites in Rural Watersheds to Improve Water Quality: Integrating Ecological and Economic Approaches," U.S. Department of Agriculture, (Co-Principal Investigator with C. Richardson and N. Flanagan), 1998-2001.

"Economic Valuation of Water Quality in the Catawba River," Duke Energy Corporation, 1997-1999.

"Economics of Biodiversity Conservation in Indonesia: Protected Areas on Flores and Siberut Islands," Chemonics International, (subcontract from Asian Development Bank), 1995-1996.

"The Economics of Biodiversity Conservation in Indonesia," International Research Planning Grant, Office of the Provost, 1995-1996.

"Economic Valuation of Watershed Protection in Tropical Forests," Josiah Charles Trent Memorial Foundation (Co-Principal Investigator with S. Pattanayak), 1995-1996.

"Visualization Technologies in Environmental Curricula," National Science

Foundation, (Co-Principal Investigator with R. Bereman, T. Malone, D. Crawford-Brown, and L. Lee), 1994-1995.

"Working Conference on Tropical Biodiversity," The Howard Gilman Foundation (Co-Principal Investigator with J. Johnson and C. van Schaik), 1993.

"Methods for Ecotourism Market Assessment of the Atlantic Coastal Forests of Parana, Brazil, U.S. Forest Service, 1993-1994.

"The Economic Implications of Biodiversity Protection in Madagascar," World Wildlife Fund (Co-Principal Investigator with P. Shyamsundar), 1992-1993.

"Estimating Nonmarket Forest Benefits in the Southern Appalachian Mountains with Travel Cost Models," U.S. Forest Service, 1992.

"Economic Valuation of the Environmental Impacts of Development Projects," World Bank, 1991-1993.

"Designing Protective Buffer Zones for National Parks: The Case of the Mantadia National Park in Madagascar," Josiah Charles Trent Memorial Foundation (Co-Principal Investigator with P. Shyamsundar), 1991-1992.

"Biodiversity: Measuring, Monetizing, and Managing an Elusive Resource," Center for Tropical Conservation and U.S. Agency for International Development, (Co-Principal Investigator with Carel van Schaik), 1991-1994.

"Economic Valuation of Forested Ecosystem Damages Resulting from Hurricane Hugo," U.S. Forest Service, 1991-1993.

"Economic Valuation of the Environmental Impacts of Development Projects: Project Preparation," World Bank, 1990.

"Economic Analysis of a Proposed Agricultural Wetlands Reserve Program" (Co-Principal Investigator with Peter Parks), U.S. Department of Agriculture, 1990-1992.

"Economic Valuation of Forest Quality: Measurement and Assessment," U.S. Forest Service, 1990-1992.

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