

## **CURRICULUM VITAE**

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**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 Positions:***

Professor Emeritus of Environmental Economics, Nicholas School of the Environment, Duke University  
Research Professor of Global Health, Duke Global Health Institute

### ***Previous Experience:***

Juli Plant Grainger Professor of Global Environmental Health, Nicholas School of the Environment, Duke University, 2017-2021.

Interim Director, Duke Global Health Institute, Duke University, 2017.

Deputy Director, Duke Global Health Institute, Duke University, 2011-2019.

Associate Director for Strategy, Duke Global Health Institute, Duke University, 2010-2011.

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 Agricultural Economics Association

***Honorary Societies:***

Phi Beta Kappa  
Phi Eta Sigma  
Gamma Sigma Delta  
Sigma Xi

***Selected Professional Activities:***

- 2017- 2019:** Chair, Environmental Economics and Policy Program, Nicholas School (1990-92, 1996-98, 2002-07 and 2017-2019)
- 2014 - 2019:** Board of Directors and Treasurer, Triangle Global Health Consortium
- 2014 - 2017:** Talent (education) Domain Co-Leader, Amsterdam Health and Technology Institute
- 2012 - 2015:** Bass Connections in Global Health Theme Leader, Duke University
- 2011 - 2015:** Member, National Advisory Environmental Health Science Council, National Institutes of Health.
- 2009 - 2015:** Faculty Leader, Global Environmental Health Signature Research Initiative, Duke Global Health Institute.
- 2007-2014:** 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.
- 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 International Union for the Conservation of Nature (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
- 1998-2011:** 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.
- 1989-1995:** 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 Peradeniya, 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 Economics  
 Global Environmental Health  
 Ecosystem Services  
 Benefit-Cost Analysis  
 Environmental Policy Analysis  
 Economic Development

**Courses Taught:**

Planetary Health: Ecosystems, Human Health and Policy  
 Social Science Surveys for Environmental Management  
 Economics of Environmental Management  
 Environmental Social Sciences Research Workshop  
 Economic Analysis of Environmental Policy  
 Resource and Environmental Economics  
 Advanced Environmental Economics  
 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:**

X.N. Zhou, R. Kramer, and W.Z. Yang, editors, *Malaria Control and Elimination Program in the People's Republic of China*, *Advances in Parasitology*, vol. 86, 1-360 (2014).

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 and Chapters:**

K. Kauffman, C.S. Werner, G. Titcomb, M. Pender, J.Y. Rabezara, J.P. Herrera, J.T. Shapiro, A. Solis, V. Soarimalala, P. Tortosa, R. Kramer, J. Moody, P.J. Mucha, and C. Nunn. "Comparing Transmission Potential Networks Based on Social Network Surveys, Close Contacts and Environmental Overlap in Rural Madagascar." *Journal of the Royal Society Interface* 19, no. 186 (2022): 20210690.

J.P. Herrera, J.Y. Rabezara, N. Ravelomanantsoa, M. Metz, C. France, A. Owens, M. Pender, C. L. Nunn, and R.A. Kramer. "Food Insecurity Related to Agricultural Practices and Household Characteristics in Rural Communities of Northeast Madagascar." *Food Security* (2021): 1-13.

L. Olander, S. Mason, H. Tallis, J. Lamb, Y. Masuda, and R. Kramer, "Climate Change, Ecosystem Services and Human Health," in G. Luber and J. Lemery (eds): *Global Climate Change & Human Health: From Science to Practice*. Jossey-Bass (2021)

C. Nunn, A. Solis, S. Rakotonarivo, C. Golden, and R. Kramer, "One Health and Research Practice in Madagascar", in S. Goodman (Ed): *The Natural History of Madagascar*. Princeton University Press (forthcoming, 2021)

N. Berlin Rubin, L. Mboera, A. Lesser, M. Miranda, and R. Kramer." Process Evaluation of a Community-Based Microbial Larviciding Intervention for Malaria Control in Rural Tanzania." *International Journal of Environmental Research and Public Health* 17.19 (2020): 7309.

E. Khandekar, R. Kramer, A. Ali, A., A. Al-mafazy, J. Egger, S. LeGrand, H. Mkali, M. McKay, J. Ngondi, "Evaluating Response Time in Zanzibar's Malaria Elimination Case-based Surveillance-Response System." *American Journal of Tropical Medicine and Hygiene* 100 (2019): 256.

J. Cole, J. McDonald, X. Wen, R. Kramer, "Marketing Energy Efficiency: Perceived Benefits and Barriers to Home Energy Efficiency." *Energy Efficiency* (2018) 11: 1811-1824.

Z.S. Brown and R.A. Kramer, "Preference Heterogeneity in the Structural Estimation of Efficient Pigovian Incentives for Insecticide Spraying to Reduce Malaria," *Environmental and Resource Economics* 70 (2018): 169–190.

R. Kramer and D.E. Mercer, "Valuing a Global Environmental Good: U.S. Resident's Willingness to Pay to Protect Tropical Rain Forests." *The Stated Preference Approach to Environmental Valuation: Volume III: Applications: Benefit-Cost Analysis and Natural Resource Damage Assessment* (2018): 275–89. (reprinted from original 1997 publication)

J. Bartlett, Cao, S., Mmbaga, B., Qian, X., Merson, M., Kramer, R. "Strengthening an Academic Global Health Network through a Partnership Conference." *Annals of Global Health* 83 (2017): 630-636

R.A, Simmons, L. Mboera, M. Miranda, A. Morris, G. Stresman, E. Turner, R. Kramer, C. Drakeley, W.P. O'Meara, "A Longitudinal Cohort Study of Malaria Exposure and Changing Serostatus in a Malaria Endemic Area of Rural Tanzania," *Malaria Journal* 16 (2017): 309.

D.A., Miteva, R.A. Kramer, Z. Brown, and M. Smith, "A Spatial Model of Household Fuelwood Extraction in Northern Uganda," *American Journal of Agricultural Economics* 99 (2017): 1008-1026.

S.K. Pattanayak, R.A. Kramer, and J.R. Vincent, "Ecosystem Change and Human Health: Implementation Economics and Policy," *Philosophical Transactions B* (2017): 372:1722.

Z.S. Brown, R.A. Kramer, D. Ocan, and C. Oryema, "Household Perceptions and Subjective Valuations of Indoor Residual Spraying Programs to Control Malaria in Northern Uganda," *Infectious Diseases of Poverty* 5 (2016): 100-113.

S.L. Macdonald, R.L. Lewison, S.E. Rody, R.A. Kramer, D. Rigling-Gallagher, and A.J. Read, "Comparing Stakeholder Perceptions with Empirical Outcomes from Negotiated Rulemaking Policies: Is Participant Satisfaction a Proxy for Policy Success?," *Marine Policy* 73 (2016): 224-230.

R. Rahman, A. Lesser, L. Mboera, and R. Kramer, "Cost of Microbial Larviciding for

Malaria Control in Rural Tanzania," *Tropical Medicine & International Health* 21 (2016): 1468-1475.

D. Kim, Z. Brown, R. Anderson, C. Mutero, M.L. Miranda, J. Wiener, and R. Kramer, "The Value of Information in Decision-Analytic Modeling for Malaria Vector Control in East Africa," *Risk Analysis* 37 (2016): 231-244.

L. Olander, S. Mason, H. Tallis, J. Lamb, Y. Masuda, and R. Kramer, "Climate Change, Ecosystem Services and Human Health," in G. Luber and J. Lemery (eds): *Global Climate Change & Human Health: From Science to Practice*. Jossey-Bass (2015)

C.J. Paul, R.A. Kramer, A. Lesser, C.M. Mutero, M.L. Miranda, and K. Dickinson, "Identifying Barriers in the Malaria Control Policymaking Process in East Africa: Insights from Stakeholders and a Structured Literature Review," *BMC Public Health* 15 (2015): 862- 870.

R.A. Kramer and A. Lesser, "Sustaining the Gains Made in Malaria Control and Elimination," *Infectious Diseases of Poverty* 4 (2015): 26-28.

X.N. Zhou, Z.G. Xia, R.B. Wang, Y.J. Qian, S.S. Zhou, J. Utzinger, M. Tanner, R. Kramer, and W.Z. Yang, "Feasibility and Roadmap Analysis for Malaria Elimination in China," 21-46, chapter 2 in *Malaria Control and Elimination Program in the People's Republic of China*, X.N. Zhou, R. Kramer, and W.Z. Yang, editors, *Advances in Parasitology*, 86 (2014):1-360.

Z.G. Xia, L. Zhang, J. Feng, M. Li, X.Y. Feng, L.H. Tang, S.Q. Wang, H.L. Yang, Q. Gao, R. Kramer, T. Ernest, P. Yap, and X.N. Zhou, "Lessons from Malaria Control to Elimination: Case Study in Hainan and Yunnan Provinces," 47-79, chapter 3 in *Malaria Control and Elimination Program in the People's Republic of China*, X.N. Zhou, R. Kramer, and W.Z. Yang, editors, *Advances in Parasitology*, 86 (2014):1-360.

C. Mutero, R. Kramer, C. Paul, A. Lesser, M.L. Miranda, L.E.G. Mboera, and B. Ameneshewa, "Factors Influencing Malaria Control Policy-making in Kenya, Uganda and Tanzania," *Malaria Journal* 13 (2014): 305-405.

R.A. Kramer, L.E.G. Mboera, K. Senkoro, A. Lesser, E.H. Shayo, C.J. Paul, and M.L. Miranda, "A Randomized Longitudinal Factorial Design to Assess Malaria Vector Control and Disease Management Interventions in Rural Tanzania," *Int. J. Environ. Res. Public Health* 11 (2014): 5317-5332.

L.E.G. Mboera, R.A. Kramer, M.L. Miranda, S.P. Kilima, E.H. Shayo, and A. Lesser, "Community Knowledge and Acceptance of Larviciding for Malaria Control in a Rural District of East-Central Tanzania," *Int. J. Environ. Res. Public Health* 11 (2014): 5137-5154.

R. Kramer, A. Jenkins, and A. Lesser, "The Role of Ecosystem Service Payments in Achieving Conservation Goals: Attitudes Among Farm Operators," chapter in *Valuing Ecosystem Services – Methodological Issues and Case Studies*, K.N. Ninan, editor, Cheltenham: Edward Elgar Publishers (2014): 395-413.

L.E.G. Mboera, H.D. Mazigo, S.F. Rumisha, and R.A. Kramer, "Towards Malaria

Elimination and its Implication for Vector Control, Disease Management and Livelihoods in Tanzania,” *Malaria World Journal* 4 (2013): 1-14.

Z. Brown, K. Dickinson, and R. Kramer, “Insecticide Resistance and Malaria Vector Control: The Importance of Fitness Cost Mechanisms in Determining Economically Optimal Control Trajectories,” *Journal of Economic Entomology* 106 (2013): 366-374.

D. Kim, K. Fedak, and R. Kramer, “Reduction of Malaria Prevalence by Indoor Residual Spraying: A Meta-Regression Analysis,” *American Journal of Tropical Medicine and Hygiene* 87 (2012): 117-124.

C.M. Mutero, D. Schlodder, N. Kabatereine and R. Kramer, “Integrated Vector Management for Malaria Control in Uganda: Knowledge, Perceptions and Policy Development,” *Malaria Journal* 11 (2012): 21-31.

K.L. Dickinson, H.F. Randell, R.A. Kramer, E.H. Shayo, “Socioeconomic Status and Malaria-related Outcomes in Mvomero District, Tanzania,” *Global Public Health* 4 (2012): 384-99.

H. Randell, K. Dickinson, E. Shayo, L. Mboera, and R. Kramer, “Environmental Management for Malaria Control: Knowledge and Practices in Mvomero, Tanzania,” *EcoHealth* 7 (2010): 507–516.

W.A. Jenkins, B.C. Murray, R.A. Kramer, and S. P. Faulkner, “Valuing Ecosystem Services from Wetland Restoration in the Mississippi Alluvial Valley,” *Ecological Economics* 69 (2010): 1051-1061.

Y. Kraus Elsin, R.A. Kramer, W.A. Jenkins, “Valuing Drinking Water Provision as an Ecosystem Service in the Neuse River Basin,” *Journal of Water Resources Planning and Management* 136 (2010): 474-482.

R.A. Kramer, “Forests and Biodiversity: An Alternative View,” chapter 4 in *Latin American Development Priorities: Costs and Benefits*, Bjorn Lomborg, editor, Cambridge Press (2010): 227-234.

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) 113-134.

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, Sage Publications (2008): 172-180.

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 (2006): 45-56.

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," in Proceedings of the Ninth International Coral Reef Symposium, Bali, Indonesia, 2000, Indonesian Institute of Sciences, 2 (2003) : 739-740

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, 72 (2003): 303-320.

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(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," chapter 4 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): 3-14.
- 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): 172-186.
- 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): 187-211

P. Shyamsundar and R.A. Kramer, "Tropical Forest Protection: An Empirical Analysis of the Costs Borne 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): 181-194.

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.

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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).

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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.

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R.A. Kramer, "Decision Analysis as a Tool in Integrated Environmental Management," in *Integrated Environmental Management*, chapter 5 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.

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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).

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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*.

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“Land Use Change, Transmission Potential Networks and Disease Spread in Madagascar,” with Charles Nunn (PI) and James Moody, National Institutes of Health, R01, 2019-2024, \$2,384,810.

“Identifying Infectious Disease Transmission Pathways for Improved Population Health and Pandemic Preparedness,” with Charles Nunn (PI), Linfa Wang, and James Moody, Provost Office, University, 2019-2022, \$228,206.

“Socio-Ecological Networks and Zoonotic Disease in Rural Madagascar,” Duke University Bass Connections, with Charles Nunn (PI), 2019-2020, \$25,000.

“How Do People Affect Zoonotic Disease Dynamics in Madagascar,” Duke University Bass Connections, with Charles Nunn (PI), 2018-2019, \$25,000.

“Poverty, Sanitation and Human Health in Lowndes County, Alabama,” PI with Betsy Albright and Erika Weinthal, Duke Global Health Institute, Duke University, 2018-2019, \$24,240.

“Application of Integrated Strategy with Community-based Approaches and Strengthening Health Systems to Control Malaria Effectively in Southern Tanzania,” China UK Global Health Support Programme, UK Department of International Development (DFID), Contract No.: GHSP-CS-OP4-D02, Xiao-Nong Zhou (PI), China CDC, Subcontract to DGHI, 2015-2017.

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“Biodiversity Conservation, Food Production and Poverty Alleviation in Post-Conflict Uganda: Developing a Policy Relevant Research Agenda,” Joshua Trent Foundation, 2009-2010.

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“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.

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