

SUBHRENDU K. PATTANAYAK

Sanford School of Public Policy
Duke University, Durham, North Carolina 27708, USA
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Current and Previous Principal Positions

Oak Professor of Environmental and Energy Policy, Duke University, 2018 –
Director of Graduate Studies, Public Policy PhD. Program, Duke University, 2019 –
Professor of Public Policy, Duke University, 2012 – 2017
Faculty Director, The Energy Access Project at Duke, 2017 – 2018.
Associate Professor of Public Policy & Environment, Duke University, 2008 – 2011
Fellow & Senior Economist, Health Social and Economics Research, RTI International, 1998 - 2008
Visiting Assistant Professor of Environmental Economics, Duke University, 1997 – 1998

Other Positions

Professor (Secondary), Department of Economics, Duke University, 2011 –
Professor (Secondary), Global Health Institute, Duke University, 2008 –
Visiting Professor, Toulouse School of Economics, France, April 2017
Visiting Professor, CATIE Costa Rica, Economics & Environment for Development, Spring 2015
Malmsten Visiting Professor, Gothenburg University, Economics Department, Fall 2014
Senior Associate, Center for International Forestry Research (CIFOR), 2009 – 2012
Visiting Scholar, Agriculture and Resource Economics, University of California, Berkeley, 2006 - 2007
Faculty Fellow, South Asian Network of Development & Environment Economics (SANDEE), 2004 –
Adjunct Associate Professor, Nicholas School of the Environment, Duke University, 2004 – 2008
Research Associate Professor, College of Natural Resources, North Carolina State University, 2005 – 2008
Research Assistant Professor, College of Natural Resources, North Carolina State University, 1998 – 2004

Education

Summer Institute in Public Health, Harvard University, Boston, Massachusetts, 2004
Ph.D., Environmental Economics, Duke University, Durham, North Carolina, 1997
M.S., Economics, Purdue University, West Lafayette, Indiana, 1992
B.A., Economics, St. Stephen's College, University of Delhi, India, 1990

Honors and Awards

International Visiting Scholar, Peter Wall Institute's, University of British Columbia, 2017
Resident, Rockefeller Foundation Academic Residency Program, Bellagio, Italy, 2016
Fellow, South Asian Network of Development and Environment Economics, 2007 –
Fellow, RTI International, 2005 – 2008
RTI International Highly Published Author Award, 2004, 2005, 2006 and 2007
RTI International Annual Award, 2004
Nicholas School of the Environment, Graduate Student of the Year, 1994
St. Stephen's College, David Ram Award - Academic & Sports Performance and College Service, 1990

Professional Associations

American Economic Association; Association of Environmental and Resource Economists

Editorship

Handbook of Environmental Economics, North-Holland (Co-Editor), 2012 – 2018

Environment and Development Economics, Editorial Board, 2014 –
Environment and Development Economics, Associate Editor, 2012 – 2014
Conservation Letters, Associate Editor (Social Science), 2007 – 2012
Forest Science, Associate Editor (Economics), 2004 – 2005

Referee

Agriculture, Ecosystems & Environment; Agroforestry Systems; American Journal of Agricultural Economics; Biological Conservation; Bioscience; Conservation Biology; Conservation Letters; Development Policy Review; EcoHealth; Ecological Economics; Economic Journal; Environment & Development Economics; Environment & Resource Economics; Forest Policy & Economics; Forest Science; International Journal of Hygiene and Environmental Health; Journal of the Association of Environmental and Resource Economics; Journal of African Economies; Journal of Development Economics; Journal of Development Studies; Journal of Environmental Economics & Management; Lancet Planetary Health; Oryx; PLOS One; Proceedings of the National Academy of Sciences; Southern Economics Journal; Resource & Energy Economics; Water Policy; Water Resources Research; World Development || National Science Foundation (Economics, Geography)

Peer-Reviewed Publications

1. Orgill-Meyer, J., and SK Pattanayak. 2020. Improved Sanitation Increases Long-Term Cognitive Test Scores. *World Development*.
2. Pattanayak, SK, M Jeuland, J Lewis, V Bhojvaid, N Brooks, A Kar, L Lipinski, L Morrison, O Patange, N Ramanathan, I Rehman, R Thadani, F Usmani, M Vora, V Ramanathan. 2019. Cooking up change in the Himalayas: Evidence from mixing quasi-experiments with an experiment on cookstove promotion. *Proceedings of the National Academy of Sciences*. 116 (27) 13282-13287
3. Orgill-Meyer, J, SK Pattanayak, N Chindarkar, KL Dickinson, U Panda, S Rai, B Sahoo, A Singha, MA Jeuland. 2019. Sustaining Sanitation: The Long-Term Impacts of a Community-Led Total Sanitation Campaign. *Bulletin of the World Health Organization*. 97(8): 523–533A
4. Litzow, EL, SK Pattanayak, and T Thinley. 2019. Evaluating Rural Electrification: Evidence from Bhutan. *World Development*. 121: 75 - 96
5. Usmani, F., MA Jeuland, SK Pattanayak, AK Shannon. 2019. Price of purity: Willingness to pay for air and water purification in Rajasthan, India. *Environment and Resource Economics*. 73 (4) 1073–1100
6. Tan Soo, JS, and SK Pattanayak. 2019. Seeking natural capital projects: Forest fires, haze, and early-life exposure in Indonesia. *Proceedings of the National Academy of Sciences*. 116 (12) 5239-5245
7. Pattanayak, SK, EL Pakhtigian, EL Litzow. 2018. *Through the Looking Glass: Environmental health economics in low and middle income countries*. Chapter IV in P Dasgupta, SK Pattanayak and VK Smith (eds.) *Handbook of Environmental Economics. Volume 4*. Elsevier, North Holland. Pages 143 – 192.
8. Mullan, K., EO Sills, SK Pattanayak, J Caviglia-Harris. 2018. Converting Forests to Farms: The Economic Benefits of Clearing Forests in Agricultural Settlements in the Amazon. *Environment and Resource Economics*. 71(2): 427-452.
9. Pattanayak, SK, and A Haines. 2018. Author's reply. *Lancet Planetary Health*. 2(2): e63.
10. Dasgupta, P, SK Pattanayak and VK Smith. Editors. 2018. *Handbook of Environmental Economics. Volume 4*. Elsevier, North Holland. 478 pages.
11. Rieb, J, Chaplin-Kramer, R, Daily, G., Armsworth, P, Böhning-Gaese, K, Bonn, A, Cumming, G; Eigenbrod, F; Grimm, V; Jackson, B; Marques, A; Pattanayak, SK; Pereira, H; Peterson, G; Ricketts, T; Robinson, B; Schröter, Matthias; Schulte, L; Seppelt, R; Turner, M; Bennett, E. 2018. Response to Kabisch and Colleagues. *BioScience*.
12. Clark S, Carter E, Shan M, Ni K, Niu H, Tseng JT, Pattanayak SK, Jeuland M, Schauer JJ, Ezzati M, Wiedinmyer C, X Wang, J Baumgartner. 2017. Adoption and use of a semi-gasifier cooking and water

- heating stove and fuel intervention in the Tibetan Plateau, China. *Environmental Research Letters*. 12(7):075004.
13. Rieb, J, Chaplin-Kramer, R, Daily, G., Armsworth, P, Böhning-Gaese, K, Bonn, A, Cumming, G; Eigenbrod, F; Grimm, V; Jackson, B; Marques, A; Pattanayak, SK; Pereira, H; Peterson, G; Ricketts, T; Robinson, B; Schröter, M; Schulte, L; Seppelt, R; Turner, M; Bennett, E. 2017. When, where, and how nature matters for ecosystem services: Challenges for the next generation of ecosystem service models. *BioScience*. 67 (9) 820–833
 14. Atmadja, S., E. Sills, S.K. Pattanayak, S.R. Patil and J-C. Yang. 2017. "Explaining environmental health behaviors: Evidence from rural India on the influence of discount rates." *Environment and Development Economics*. 22(3): 229-248.
 15. Sharma, B., P. Shyamsundar, M. Nepal, SK Pattanayak, and B. Karky. 2017. Costs, cobenefits, and community responses to REDD+: a case study from Nepal. *Ecology and Society* 22(2).
 16. Pattanayak, SK, and A Haines. 2017. Implementation of policies to protect planetary health. *Lancet Planetary Health*. 1(7): e255-e256.
 17. Pattanayak, SK, RA Kramer, JR Vincent. 2017. Ecosystem Change and Human Health: Implementation Economics and Policy. *Philosophical Transactions of the Royal Society B*. 372(1722): 20160130.
 18. Sills, EO, C de Sassi, P Jagger, K Lawlor, D Miteva, SK Pattanayak, and W Sunderlin. 2017. Building the evidence base for REDD+: Study design and methods for evaluating the impacts of conservation interventions on local well-being. *Global Environmental Change*. 43: 148-160
 19. Van Houtven, GL., SK Pattanayak, F Usmani and JC Yang. 2017. What are households willing to pay for improved water access? Results from a meta-analysis. *Ecological Economics*. 136: 125-135.
 20. Rosenthal, J, K Balakrishnan, N Bruce, D Chambers, J Graham, D Jack, L Kline, O Masera, S Mehta, IR Mercado, G Neta, S Pattanayak, E Puzzolo, H Petach, A Punturieri, A Rubinstein, M Sage, R Sturke, A Shankar, K Sherr, K Smith, and G Yadama. 2017. Implementation Science to Accelerate Clean Cooking for Public Health. *Environmental Health Perspectives*. 25(1): A3-A7.
 21. Lewis, JJ, JW Hollingsworth, R Chartier, EM Cooper, WM Foster, GL Gomes, P Kussin, JJ MacInnis, B Padhi, P Panigrahi, CE Rodes, IT Ryde, AK Singha, HM Stapleton, JW Thornburg, CJ Young, JN Meyer, SK Pattanayak. 2017. Biogas stoves reduce firewood use, household air pollution, and hospital visits in Odisha, India. *Environmental Science and Technology*. 51 (1): 560–569
 22. Pfaff, A., R Arriagada, K Baylis, J Borner, P Ferraro, S Pattanayak, J Robalino, E Sills, and S Wunder. 2017. "Cash for Carbon: considering all the necessary rigorous evidence". *Science* 357, 6348. E-comment. <https://science.sciencemag.org/content/357/6348/267/tab-e-letters>
 23. Vincent, JR, I Ahmad, N Adnan, T Burwell, SK Pattanayak, JS Tan-Soo & K Thomas. 2016. Valuing Water Purification by Forests: An Analysis of Malaysian Panel Data. *Environment and Resource Economics*. 64(1): 59-80.
 24. Brooks, N, V Bhojvaid, MA Jeuland, JJ Lewis, O Patange, and SK Pattanayak. 2016. "Do clean cookstoves reduce biomass fuel use? Evidence from North India." *Resource and Energy Economics*. 43: 153-171.
 25. Tan Soo, JS, N binti Adnan, I Ahmed, SK Pattanayak and JR Vincent. 2016. Econometric evidence on forest ecosystem services: deforestation and flooding in Malaysia. *Environment and Resource Economics*. 63(1): 25-44.
 26. Bauch, SC, AM Birkenbach, SK Pattanayak, and E Sills. 2015. Public health benefits of ecosystem change in the Brazilian Amazon. *Proceedings of the National Academy of Sciences*. 112 (24) 7414-7419.
 27. Whittington, D and SK Pattanayak. 2015. Reflections on the Economic Analysis of Water Supply and Sanitation Investments. Chapter 24 in A Dinar and K Schwabe (eds.). *Handbook of Water Economics*. Edward Elgar. Pp 469-499.
 28. Romero, C., F Putz, A Angelsen, J Börner, M Hanauer, M McConnachie, SK Pattanayak, E Sills, S Wunder, PJ Ferraro. 2015. "Brazil's Soy Moratorium": Comment. *Science* E-Comment. Jan 23, p.377.
 29. Jeuland, M., V Bhojvaid, A Kar, J. Lewis, O. Patange, SK Pattanayak, N Ramanathan, I. Rehman, J. Tan Soo,

- and V. Ramanathan. 2015. "Preferences for improved cookstoves: Evidence from rural villages in north India. *Energy Economics*. 52: 287-298.
30. Ferraro, PJ, MM Hanauer, DA Miteva, J Nelson, SK Pattanayak, C Nolte, KRE Sims. 2015. Estimating the impacts of conservation on ecosystem services by integrating ecosystem service modeling and impact evaluation. *Proceedings of the National Academy of Sciences*. 112 (24) 7420-7425
 31. Arriagada, R., E Sills, PJ Ferraro, and SK Pattanayak. 2015. Do payments payoff? Evidence from participation in Costa Rica's PES program? *PLOS One*. 10(7): e0131544.
 32. Dickinson, KL, SR Patil, SK Pattanayak, C. Poulos and JC Yang. 2015. "Nature's Call: Health impacts of sanitation choices in Orissa, India." *Economic Development and Cultural Change*. 64(1): 1-29.
 33. Miteva, D., C. Loucks, and SK Pattanayak. 2015. Environmental and social impacts of forest certification in Indonesia. *PLOS One*. 10(7): e0129675.
 34. Jeuland, M, SK Pattanayak, and R Bluffstone. 2015. The economics of household air pollution. *Annual Review of Resource Economics*. 7(1): 81-108.
 35. Sills, EO, D Herrera, AJ Kirkpatrick, A Brandão, R Dickson, S Hall, SK Pattanayak, D Shoch, M Vedoveto, L Young and A Pfaff. 2015. Impacts of a Local Forest Policy Innovation given Federal Policies: demonstrating synthetic control methods for transparent case comparisons. *PLOS One*. 10(7): e0132590.
 36. Miteva, D., BC Murray, and SK Pattanayak. 2015. Do protected areas sequester blue carbon? A quasi-experimental analysis of mangroves in Indonesia. *Ecological Economics*. 119: 127-135
 37. Whitmee, S, A Haines, C Beyrer, F Boltz, AG Capon, B Ferreira de Souza Dias, A Ezech, H Frumkin, G Peng, P Head, R Horton, G Mace, R Marten, SS Myers, S Nishtar, SA Osofsky, SK Pattanayak, MJ Pongsiri, C Romanelli, A Soucat, J Vega, D Yach. 2015. Safeguarding human health in the Anthropocene epoch: Report of the Rockefeller-Lancet Commission on Planetary Health. *Lancet*. 386.10007: 1973-2028
 38. Lewis, JJ, V Bhojvaid, N Brooks, I Das, MA Jeuland, O Patange, and SK Pattanayak. 2015. Piloting improved cookstoves in India. *Journal of Health Communication*. 20 (sup1), 28-42
 39. Wendland, KJ, SK Pattanayak, and EO Sills. 2015. Do national-level differences matter in the adoption of environmental health technologies? A cross-border comparison from Benin and Togo. *Health Policy and Planning*. 30 (2): 145-154.
 40. Bauch, S. E Sills, SK Pattanayak. 2014. Have we managed to integrate conservation and development? ICDP impacts in the Brazilian Amazon. *World Development*. 64 (Supplement 1): S135-S148
 41. Pattanayak, SK and JS TanSoo. 2014. Water in Development. In T Haab and J Whitehead (ed). *Environmental and Natural Resource Economics: An Encyclopedia*. Greenwood Publishers. Pp 336-338.
 42. Evans, WD, SK Pattanayak, S. Young, J. Buszin, S Rai, and JL Wallace. 2014. Systematic Review Social Marketing of Water and Sanitation. *Social Science & Medicine*. 110: 18-24
 43. Sanglimsuwam, K., EO Sills, SK Pattanayak, S Saha, A Singha and B Sahoo. 2014. Occupational and environmental health impacts from mining in Orissa, India. Chapter 15 in S. Barrett, KG Mäler, and ES Maskin (ed). *Environment and Development Economics: Essays in Honor of Sir Partha Dasgupta*. Oxford University Press. Pp 310-331.
 44. Miteva, D., SK Pattanayak, PJ Ferraro. 2014. Do biodiversity policies work? The case for conservation evaluation 2.0. Chapter 12 in D. Helm and C. Hepburn (ed.). *Nature in balance: The economics of biodiversity*. Oxford University Press. Pp 251-284.
 45. Tallis, H, J Lubechenco et al. 2014. Towards a diverse conservation ethic. *Nature* 515: 27-28.
 46. Bhojvaid, V, M Jeuland, A Kar, JJ Lewis, SK Pattanayak, N Ramanathan, V Ramanathan and IH Rehman. 2014. "How do people in rural India perceive improved stoves and clean fuel? Evidence from Uttar Pradesh and Uttarakhand". *International Journal of Environmental Research and Public Health*. 11(2): 1341-1358.
 47. Pant, KP, SK Pattanayak, and MBM Thakuri. 2014. Climate change, cook stoves, and coughs and colds: Thinking global and acting local in rural Nepal. Chapter 5 in S. Barrett, KG Mäler, and ES Maskin (ed). *Environment and Development Economics: Essays in Honor of Sir Partha Dasgupta*. Oxford University Press. Pp 145 – 168.

48. Ferraro, PJ, MM Hanauer, DA Miteva, GJ Canavire-Bacarreza, SK Pattanayak, KRE Sims. 2013. More strictly protected areas are not necessarily more protective: evidence from Bolivia, Costa Rica, Indonesia, and Thailand. *Environmental Research Letters* 8(2): 1-7.
49. Poulos, C, J-C Yang, SR Patil, SK Pattanayak, S Wood, and L Goodyear. 2012. Stated choice assessment of consumer preferences for household water treatment products in Andhra Pradesh, India. *Social Science & Medicine*. 75: 738-746.
50. Hamoudi, A, MA Jeuland, S Lombardo, S Patil, SK Pattanayak, and S Rai. 2012. The effect of water quality testing on household behavior: Evidence from an experiment in rural India. *American Journal of Tropical Medicine and Hygiene*. 87(1): 18-22.
51. Lewis, JJ and SK Pattanayak. 2012. Who adopts improved fuels and cookstoves? A systematic review. *Environmental Health Perspectives* 120(5): 637-645.
52. Jeuland, MA, and SK Pattanayak. 2012. Benefits and costs of improved cookstoves: Assessing the implications of variability in health, forest and climate impacts. *PLOS One*. 7(2): e30338.
53. Ferraro, PJ, K Lawlor, KL Mullan, and SK Pattanayak. 2012. "Forest figures: A review of ecosystem services valuation and policies in developing countries." *Review of Environmental Economics and Policy*. 6 (1): 20 – 44.
54. Arriagada, R., PJ Ferraro, E Sills, SK Pattanayak, and S Cordero. 2012. Do payments for environmental services reduce deforestation? A farm level evaluation from Costa Rica. *Land Economics*. 88 (2): 382–399.
55. Lin, L, SK Pattanayak, EO Sills and W Sunderlin. 2012. Site selection for forest carbon projects. Chapter 12 in A. Angelsen, M. Brockhaus, W. Sunderlin and L. Verchot (ed.) *Analyzing REDD*. Center for International Forestry.
56. Miteva, D., SK Pattanayak, PJ Ferraro. 2012. Evaluation of biodiversity policy instruments: What works and what doesn't? *Oxford Review of Economics and Policy*. 28(2): 69-92.
57. Butry, DT, and SK Pattanayak. 2011. "Local impacts of tropical forest logging: Joint estimation of revealed and stated preference data from Ruteng, Indonesia". Chapter 13 in J. Whitehead, T. Haab, and J.C. Huang (eds). *Preference Data for Environmental Valuation: Combining Revealed and Stated Approaches*. Routledge Publishers. Pp 193-207.
58. Weber, J., E Sills, SC Bauch, and SK Pattanayak. 2011. Do ICDPs work? An empirical evaluation of forest-based microenterprises in the Brazilian Amazon. *Land Economics*. 87 (4): 645–681
59. Gunatilake, H., J-C. Yang, SK Pattanayak, and C. van den Berg. 2011. "An assessment of demand for improved household water supply in southwest Sri Lanka." Chapter 18. In AK Enamul Haque, MN Murty, and P. Shyamsundar (eds.). *Environmental Valuation in South Asia*. Cambridge University Press. Pp 444 - 473.
60. Beach, RH, EO Sills, T. Liu, and SK Pattanayak. 2011. "The Influence of forest management on vulnerability to severe weather." In JM Pye, HM Rauscher, Y. Sands, DC Lee, and JS Beatty (eds.), *Advances in Threat Assessment and Their Application to Forest and Rangeland Management*. General Technical Report, PNW-GTR-802. Pacific Northwest Research Stations, USDA Forest Service. Pp 185-206.
61. Saha, S, SK Pattanayak, EO Sills, and A. Singha. 2011. "Under-mining health: Environmental justice and mining in India". *Health & Place*. 17(1): 140-148.
62. Van Houtven, GL, S. K. Pattanayak, SR Patil and BM Depro. 2011. "Benefits transfer of the third kind: An examination of structural benefits transfer". Chapter 20 in J. Whitehead, T. Haab, and J.C. Huang (eds). *Preference Data for Environmental Valuation: Combining Revealed and Stated Approaches*. Routledge Publishers. Pp 303-321.
63. Pattanayak, S.K., S. Wunder, and PJ Ferraro. 2010. Show me the money: Do payments supply ecosystem services in developing countries? *Review of Environmental Economics and Policy* 4(2):254-274.
64. Pattanayak, S.K., J-C Yang, C. Poulos and S. R. Patil. 2010. "How valuable are environmental health interventions? Evaluation of water and sanitation programs in India". *Bulletin of the World Health Organization*. 88(7): 535-542.

65. Arriagada, R, E. Sills, SK Pattanayak, F. Cabbage, and E. Gonzalez. 2010. "Rice farming externalities: Modeling fertilizer use around Palo Verde National Park in Costa Rica". *Agricultural Economics*. 41 (6): 567–575.
66. Pattanayak, SK, S Saha, P Sahu, EO Sills, A. Singha and J-C Yang. 2010. "Mine over matter: Health, wealth and forests in a mining area of Orissa". *Indian Growth and Development Review*. 3(2): 166-185.
67. Poulos, CA, SR Patil, SK Pattanayak, J-C Yang, S Wood, S Himley, L Goodyear. 2009. Perceived Water Quality, Microbial Contamination, and Point of Use Treatment of Drinking Water. *Proceedings of the Water Environment Federation*. 2: 353-354
68. Alger, K., SK Pattanayak, and M. Pongsiri. 2009. Health for all: Disease regulation. Chapter 12 in J. McNeeley, R. Mittermeier, T. Brooks, F. Boltz and N. Ash (eds.) *The Wealth of Nature: Biodiversity, Ecosystem Services and Human Well-being*. Pages 155–162.
69. Jagger, P, S. Atmadja, S.K. Pattanayak, E. Sills and W.D. Sunderlin. 2009. "Learning while doing: Evaluating impacts of REDD projects". Chapter 22 in A. Angelsen et al. (ed.) *Realizing REDD: National strategy and policy options*. Center for International Forestry. Pages 283-292.
70. Pongsiri, M., J. Roman, V. Ezenwa, T.L. Goldberg, H. Koren, S. Newbold, R.S. Ostfeld, SK Pattanayak, and D. Salkeld. 2009. "Biodiversity loss affects disease ecology." *BioScience*. 59 (11): 945-954.
71. Pattanayak, S.K., M. T. Ross, B. M. Depro, S.C. Bauch, C. Timmins, K. Jones, and K. Alger. 2009. Climate change and conservation in Brazil: CGE evaluation of health and wealth impacts," *B.E. Journal of Economic Analysis & Policy* 9 (2): Article 6.
72. Pattanayak, S.K., J-C. Yang, K. L. Dickinson, C. Poulos, S.R. Patil, R. Mallick, J. Blitstein and P. Praharaj. 2009. Shame or subsidy revisited: Social mobilization for sanitation in Orissa, India. *Bulletin of the World Health Organization*. 87(8): 580-587.
73. Pattanayak, S.K. and A. Pfaff. 2009. Behavior, environment and health in developing countries: Evaluation and valuation. *Annual Review of Resource Economics*. 1: 183-222.
74. Pattanayak, SK., C. Poulos, J-C. Yang, SR Patil and KJ Wendland. 2009. Of Taps and toilets: Quasi-experimental protocols for evaluating community-demand driven projects. *Journal of Water and Health*. 7(3): 434-451.
75. Arriagada, R., E. Sills, SK Pattanayak, and PJ Ferraro. 2009. Combining qualitative and quantitative methods to evaluate participation in Costa Rica's Program of Payments for Environmental Services. *Journal of Sustainable Forestry* 28(3): 343-367.
76. Kramer, R., E.O. Sills, and SK Pattanayak. 2008. "National parks as development and conservation projects: Gauging local support." In K.M. Ninan (ed.) *Conserving and Valuing Ecosystem Services and Biodiversity: Economic, Institutional and Social Challenges*. Earthscan Publishers. Pages 123-149.
77. Pattanayak, SK and J. Yasuoka. 2008. "Deforestation and Malaria: Revisiting the Human Ecology Perspective". Chapter 9 in C.J.P. Colfer (ed.), *Forests, People and Health: A Global Interdisciplinary Overview*. Earthscan Publishers. Pages 197-217.
78. Whitehead, J., SK Pattanayak, G. L. Van Houtven, and B. Gelso. 2008. "Combining Revealed and Stated Preference Data to Estimate the Nonmarket Value of Ecological Services: An Assessment of the State of the Science." *Journal of Economic Surveys*. 22(5): 872-908.
79. Pattanayak, SK, and K. J. Wendland. 2007. "Nature's Care: Diarrhea, Watershed Protection and Biodiversity Conservation in Flores, Indonesia". *Biodiversity and Conservation*. 16(10): 2801-2819.
80. Van Houtven, G., J. Power and SK Pattanayak. 2007. Valuing water quality improvements in the United States using meta-analysis: Is the glass half-full or half-empty for national policy analysis?" *Resource and Energy Economics* 29(3): 206-228.
81. Beach, R.H., C. Poulos, and SK Pattanayak. 2007. "Agricultural Household Response to Avian Influenza Prevention and Control Policies." *Journal of Agricultural and Applied Economics*. 39(2): 201-311
82. Pattanayak, S.K., V. K. Smith and G. Van Houtven. 2007. "Improving the Practice of Benefits Transfers: A Preference Calibration Approach." Chapter 14 in S. Navrud and R. Ready (eds.), *Environmental Value*

- Transfers: Issues and Methods*. Economics of Non-markets Goods and Resources Series, Volume 9. Springer Science.
83. Mansfield, C., and S.K. Pattanayak. 2007. "Getting Started." Chapter 1 in B. Kanninen (ed.), *Valuing Environmental Amenities using Choice Experiments: A Common Sense Guide to Theory and Practice*. Economics of Non-markets Goods and Resources Series, Volume 8. Springer Science. Pages 1-20.
 84. Beach, R.H., C. Poulos, and SK Pattanayak. 2007. "Farm Economics of Bird Flu." *Canadian Journal of Agricultural Economics*. 55: 473-485.
 85. Smith, V.K., SK Pattanayak, and G. Van Houtven. 2006. "Structural Benefits Transfer: An Example Using VSL Estimation." *Ecological Economics* 60 (2): 361-371.
 86. Pattanayak, SK, K. Dickinson, C. Corey, E.O. Sills, B.C. Murray, and R. Kramer. 2006. "Deforestation, malaria, and poverty: A call for transdisciplinary research to design cross-sectoral policies". *Sustainability: Science, Practice and Policy*. 2(2): 1-12.
 87. Sills, E., SK Pattanayak, P. Ferraro, and K. Alger. 2006. "Abordagens Analíticas na Avaliação de Impactos Reais de Programas de Conservação (Evaluating Conservation Programs)". *Megadiversidade* 2 (1-2): 39-49.
 88. Sills, E. O., and SK Pattanayak. 2006. "Tropical Tradeoffs: An Economics Perspective on Tropical Deforestation". In S. Spray and M. Moran (eds.), *Tropical Deforestation*. Series on Exploring Environmental Challenges: A Multidisciplinary Approach. Rowman and Littlefield Publishers Inc. Pages 104-128.
 89. Ferraro, P.J., and SK Pattanayak. 2006. "Money for Nothing? A Call for Empirical Evaluation of Biodiversity Conservation Investments". *PLOS Biology* 4(4): e105 (0482-0488).
 90. Mansfield, C., SK Pattanayak, W. McDow, R. MacDonald, and P. Halpin. 2005. "Shades of Green: Measuring the Value of Urban Forests in the Housing Market". *Journal of Forest Economics*. 11 (3):177-199.
 91. Pattanayak, SK, and D.T. Butry. 2005. "Spatial Complementarity of Forests and Farms: Accounting for ecosystem services." *American Journal of Agricultural Economics*. 87(4): 995-1008.
 92. Pattanayak, SK, B. McCarl, A.J. Sommer, B.C. Murray, T. Bondelid, D. Gillig, and B. DeAngelo. 2005. "Water Quality Co-Effects of Greenhouse Gas Mitigation in U.S. Agriculture." *Climatic Change*, 71 (3):341-372.
 93. Pattanayak, SK, J.C. Yang, D. Whittington, and Bal Kumar K.C, 2005. "Coping with Unreliable Public Water Supplies: Averting Expenditures by Households in Kathmandu, Nepal." *Water Resources Research*. 41(2):
 94. Beach, R. H., SK Pattanayak, J. C. Yang, B. C. Murray, and R. C. Abt, 2005. "Empirical Studies of Non-Industrial Private Forest Management: A Review and Synthesis." *Forest Policy and Economics*. 7 (3) 261-281.
 95. Pattanayak, SK, 2004. "Valuing Watershed Services: Concepts and Empirics from Southeast Asia." *Agriculture, Ecosystem and Environment* 104(1): 171-184.
 96. Pattanayak, SK, and B. M. Depro. 2004. "Environmental Services from Agroforestry: Economics of Soil and Water Conservation in Manggarai, Indonesia." In *Valuing Agroforestry Systems: Methods and Applications*, J. Alavalapati and E. Mercer (eds.) p 165-182. Kluwer Academic Publishers.
 97. Pattanayak, SK, R.C. Abt, A.J. Sommer, F. Cabbage, B.C. Murray, J.C. Yang, D. Wear, and S. Ahn 2004. Forest forecasts: Does individual heterogeneity matter for market and landscape outcomes? *Forest Policy and Economics* 6: 243-260.
 98. Pattanayak, SK, E. Sills, and R. Kramer. 2004. "Seeing the Forests for the Fuel". *Environment and Development Economics* 9(2): 155-179.
 99. Smith, V. K., SK Pattanayak and G. Van Houtven. 2003. "VSL Reconsidered: What do Labor Supply Estimates tell us about Risk Preferences?" *Economics Letters* 80(2): 147-153.
 100. Pattanayak, SK, A.D. Mehta, E. O. Sills, and R.A. Kramer. 2003. "Local Uses of Parks: Uncovering Patterns of Household Production from the Forests of Siberut, Indonesia." *Conservation and Society* 1(2): 209-222.
 101. Snider, A., S.K. Pattanayak, E. Sills, and J. Schuler. 2003. "Policy Innovations for Private Forest Management and Conservation in Costa Rica." *Journal of Forestry* 101(4): 18-23.
 102. Pattanayak, S.K., D.E. Mercer, E. Sills, and J. C. Yang. 2003. "Taking Stock of the Agroforestry Adoption Studies." *Agroforestry Systems* 57 (3): 173-186.

103. Wear, D., and S.K. Pattanayak. 2003. "Aggregate Timber Supply: From the Forests to the Market." In *Forests in a Market Economy*, E. Sills and K. Abt (eds.), p. 117-132, Forestry Sciences Series, Volume 72, Dordrecht: Kluwer Academic Publishers.
104. Pattanayak, S., K. Abt, and T. Holmes. 2003. "Timber and Amenities on Non-Industrial Private Lands." In *Forests in a Market Economy*, E. Sills and K. Abt (eds.), p. 243-258, Forestry Sciences Series, Volume 72, Dordrecht: Kluwer Academic Publishers.
105. Sills, E., S. Lele, T. Holmes, and S. K. Pattanayak. 2003. "Non-timber Forest Products in the Rural Household Economy." In *Forests in a Market Economy*, E. Sills and K. Abt (eds.), p. 259-282, Forestry Sciences Series, Volume 72, Dordrecht: Kluwer Academic Publishers.
106. Mercer, E., and S.K. Pattanayak. 2003. "Agroforestry Adoption by Smallholders." In *Forests in a Market Economy*, E. Sills and K. Abt (eds.), p. 283-299, Forestry Sciences Series, Volume 72, Dordrecht: Kluwer Academic Publishers.
107. Pattanayak, S., and D. Butry. 2003. "Forest Ecosystem Services as Production Inputs." In *Forests in a Market Economy*, E. Sills and K. Abt (eds.), p. 361-379, Forestry Sciences Series, Volume 72, Dordrecht: Kluwer Academic Publishers.
108. Whittington, D., S.K. Pattanayak, J.C. Yang, and B. Kumar K.C. 2002. "Do Households Want Improved Piped Water Services? Evidence from Nepal." *Water Policy* 4(6): 531-556.
109. Pattanayak, S.K., and E. Mercer. 2002. "Indexing Soil Conservation: Farmer Perceptions of Agroforestry Benefits." *Journal of Sustainable Forestry* 15(2):63-85.
110. Cassingham, K., E. Sills, S.K. Pattanayak, and C. Mansfield. 2002. "North Carolina's Natural Heritage: A Case for Public-Private Cooperation." *Journal of Forestry* 100(4):16-23.
111. Whittington, D., O. Matsui, J. Freiburger, G. Van Houtven, and S. K. Pattanayak. 2002. "Private Demand for HIV/AIDS Vaccine: Evidence from Guadalajara, Mexico?" *Vaccine* 20(19-20):2585-2591.
112. Pattanayak, S.K., B.C. Murray, and R. Abt. 2002. "How Joint in Joint Forest Production: An Econometric Analysis of Timber Supply Conditional on Endogenous Amenity Values." *Forest Science* 47(3):479-491.
113. Smith, V. K., and S.K. Pattanayak. 2002. "Is Meta-Analysis the Noah's Ark for Non Market Valuation?" *Environmental and Resource Economics* 22(1-2):271-296.
114. Smith, V.K., G.L. Van Houtven, and S.K. Pattanayak. 2002. "Benefit Transfer via Preference Calibration: Prudential Algebra for Policy." *Land Economics* 78(1):132-152.
115. Cassingham, K., E. Sills, S. K. Pattanayak, and C. Mansfield. 2002. "Spatial Assessment of a Voluntary Forest Conservation Program in North Carolina." In *Forest Policy for Private Forestry: Global and Regional Challenges*, L. Teeter, B. Cashore, and D. Zhang, (eds.), p. 129-141. Wallingford, UK: CABI Publishing.
116. Pattanayak, S.K., and E. Sills. 2001. "Do Tropical Forests Provide Natural Insurance? The Microeconomics of Non-Timber Forest Products Collection in the Brazilian Amazon." *Land Economics* 77(4):595-612.
117. Pattanayak, S.K., and R. Kramer. 2001. "Pricing Ecological Services: Willingness to Pay for Drought Control Services in Indonesia." *Water Resources Research* 37(3):771-778.
118. Pattanayak, S.K., and R. Kramer. 2001. "Worth of Watersheds: A Producer Surplus Approach for Valuing Drought Control in Eastern Indonesia." *Environment and Development Economics* 6(1):123-45.
119. Pattanayak, S.K., and E. Mercer. 1998. "Valuing Soil Conservation Benefits of Agroforestry Practices: Contour Hedgerows in the Eastern Visayas, Philippines." *Agricultural Economics* 18:31-46.
120. Kramer, R., D. Richter, S.K. Pattanayak, and N. Sharma. 1997. "Economic and Ecological Analysis of Watershed Protection in Eastern Madagascar." *Journal of Environmental Management* 49:277-295.

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Working Papers

1. Usmani, F.; M. Jeuland; S. Pattanayak (2019). "NGOs and the effectiveness of interventions." *In Review*.

2. Sharma, B., B. Karky, B., M. Nepal, SK Pattanayak, E. Sills, P. Shyamsundar, 2019. Making incremental progress: impacts of a REDD+ pilot initiative in Nepal. *In Review*.
3. Miteva, D., and SK Pattanayak. 2019. The effectiveness of protected areas in the context of decentralization. *In Review*.
4. Jeuland, MA, M McClatchey, SR Patil, SK Pattanayak, CM Poulos, and JC Yang. 2019. Do decentralized community treatment plants provide clean water? Evidence from Andhra Pradesh, India. Duke Environmental and Energy Economics Working Paper Series. 15(1). 34 pages. (submitted to *Land Economics*).
5. Jeuland, M., T. R. Fetter, Y. Li, S. K. Pattanayak, F. Usmani, and the Sustainable Energy Transitions Initiative (2019). Is energy a golden thread? A systematic review of the impacts of modern and traditional energy use in low-and middle-income countries. *In Review*.
6. Jeuland, M.; S. Pattanayak, S. Samaddar; R. Shah; M. Vora (2019). "Adoption and short-term impacts of improved biomass cookstoves in Udaipur, Rajasthan." *In Review*.
7. Krishnapriya, PP, J. Meyer, SK. Pattanayak and M. Jeuland. 2019. Gendered demand for modern cookstoves and environmental health complementarities.
8. Mahaprashasta, J., P Mukhopadhyay, and SK Pattanayak. 2019. Willingness to Pay to Avoid Flooding: a Hedonic Price study of Cuttack, India. *In Review*.
9. Girardeau, H and SK Pattanayak. 2018. Household Solar Adoption in Low- and Middle-Income Countries: A Systematic Review. EfD Discussion Paper. EfD DP 18-10.
10. Litzow, EL, SK Pattanayak, and T Thinley. 2017. Evaluating Rural Electrification: Illustrating Research Gaps with the Case of Bhutan. EfD Discussion Paper. EfD DP 17-19.
11. Laniohan, M. SK Pattanayak, and F Usmani. 2016. Biomarkers, self-reports, and health impacts of solid fuels: Evidence from Tanzania. Duke University Working Paper.
12. Pattanayak, SK, M Jeuland, J Lewis, V Bhojvaid, N Brooks, A Kar, L Lipinski, L Morrison, O Patange, N Ramanathan, I Rehman, R Thadani, F Usmani, M Vora, V Ramanathan. (2016). Cooking up change in the Himalayas: Evidence from mixing quasi-experiments with an experiment on cookstove promotion. Duke Environmental and Energy Economics Working Paper, EE 16-03.
13. Pattanayak, SK, J Orgill, S Rai, B Sahoo, and A Singha. 2015. Sustaining Sanitation: Evidence from Orissa, India on the long-term effectiveness of shame and subsidy approach. Duke University Working Paper.
14. Jeuland, MA, SK Pattanayak and JS TanSoo. 2014. Preference heterogeneity and adoption of environmental health improvements: Evidence from a cookstove promotion experiment. Available at SSRN: <http://dx.doi.org/10.2139/ssrn.2490530>
15. Sharma, B., M. Nepal, B Karki, SK Pattanayak, and P Shyamsundar. 2015 Baseline Considerations in Designing REDD+ Pilot Projects: Evidence from Nepal. SANDEE Working Paper No. 100-15.
16. Sharma, B., P. Shyamsundar, M. Nepal, SK Pattanayak, and B. Karki. 2015. Are Community Forestry Institutions appropriate for implementing REDD+? Lessons from Nepal. SANDEE Working Paper No. 94-15
17. Sharma, B., SK Pattanayak, M Nepal, P. Shyamsundar, and B. Karki. 2015. REDD+ Impacts: Evidence from Nepal. SANDEE Working Paper No. 95-15
18. Lewis, JJ, SK Pattanayak, J Colvin. E Sasser, E Vergnano. 2013. Selling stoves. Explaining patterns in global supply. [*In review*]
19. Van Houtven, GL., SK Pattanayak and J Elswit. 2010. Explaining Progress with Water and Sanitation MDGs: A Cross-Country Regression Approach. [*Revision requested*]
20. Dickinson, K. and SK Pattanayak. 2012. "Open sky latrines: Social reinforcing in the case of a (very) impure public good." Duke University Working Paper.
21. Bauch, S, EO Sills, and SK Pattanayak. 2011. Microenterprises after the funding ends: do social networks determine who stays on?
22. Saha, S, EO Sills, J Caviglia-Harris, and SK Pattanayak. 2011. Intensification or Extensification? The Impacts of Improved Dairy Markets on Land Use in the Amazon.

23. Patil, SR, SK Pattanayak, and JS TanSoo. 2010. Behaviors exposed: Panel data evidence on environmental health externalities in rural India.
24. Ross, M., B. Depro, and S. K. Pattanayak. 2010. General Equilibrium Impacts of Costa Rica's Payments for Ecosystem Services. [*Revision requested*]

Work in Progress

- Jeuland, MA, SK Pattanayak, and F Usmani. 2018. NGOs and the effectiveness of interventions. Duke Working Paper.
- Tan Soo, JS and SK Pattanayak. Opening the black box of participatory community projects: The case of water and sanitation in Maharashtra, India.
- Tan Soo, JS and SK Pattanayak. Inside out: Joint impacts of indoor and outdoor air pollution on health in Indonesia.

Resting Papers

1. Hazra, S., I Das, JJ Lewis, TJ Lowdermilk, SK Pattanayak, A Singha. Economics of bio-gas technology: Evidence from Orissa.
 2. Patil, SR and SK Pattanayak. How do households produce health? Evidence from a water and sanitation programs in India.
 3. Das, I and SK Pattanayak. Eat, drink, man, woman: Evidence on gender-differentiated impacts of indoor air pollution from India.
 4. Pattanayak, SK, CG Corey, YF Lau, and RA Kramer. 2011. Biodiversity conservation and child health: Microeconomic evidence from Flores, Indonesia.
 5. Alam MJ, Pattanayak SK. 2009. Coping costs of unsafe and unreliable drinking water: the case of slums in Dhaka, Bangladesh. Unpublished Working Paper.
 6. Kuminoff, N., S.K. Pattanayak, V.K. Smith, and G.L. Van Houtven. 2007. "Benefits Transfer: Complementary Samples, Small Area Estimation, and Structural Meta-Analysis." RTI Working Paper. {Presented at the 2007 AERE sessions of the ASSA meetings}
 7. Corey, C.G., J-C. Yang, and SK. Pattanayak. 2007. "Seasonal variation in risk factors associated with diarrheal diseases, rural Maharashtra, India". RTI Working Paper 07_01.
 8. Patil, S. R., S. K. Pattanayak, and S. Vinerkar. 2006. "Gauging Adequacy of Community Water Supply and Sanitation Projects in Maharashtra: Methodological Triangulation"
 9. Pattanayak, S.K., C. Poulos, J-C. Yang, G.L. Van Houtven, and K. Jones. 2006. "Economics of Environmental Epidemiology: Estimates of "Prevalence Elasticity" for Malaria".
 10. Pattanayak, S.K., L. E. Carrasco, E. O. Sills, J.C. Yang, C. van den Berg, C. Agarwal, and H. Gunatilake. 2005. "Economic Geography of Water and Poverty: Evidence from Southwest Sri Lanka." RTI Working Paper.
 11. Ginwalla, Z., R. Kramer, D. Amor Conde, and S.K. Pattanayak. 2005 "Forest Cover and Malaria on Siberut Island, Indonesia". Working paper.
 12. Pattanayak, S. K., J-C. Yang, B. C. Murray, R. C. Abt, B. M. Depro, and B. Sohngen. 2004. Climate impacts on forest land values: A Ricardian Analysis. Working paper. RTI International.
 13. Van Houtven, G., S.K. Pattanayak, and V. Kerry Smith. 2004. "Benefit Transfer Functions for Avoided Morbidity: A Preference Calibration Approach." National Center for Environmental Economics Working Paper 04_04. Washington, DC. 24 pages
 14. Pattanayak, S.K. 2004. "Forest amenities and aesthetics: An econometric evaluation using North Carolina FIA data".
 15. Pattanayak, S.K., V.K. Smith, and G. Van Houtven. 2003. "Valuing Environmental Health Risks: From Preference Calibration to Estimation." RTI Working Paper 03_04. Research Triangle Park, North Carolina.
 16. Pattanayak, S.K. 2003. "Rough guide to econometrics of binary choice models". Submitted to the USDA Forest Service, Southeastern Research Station. November 2003.
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17. Pattanayak, S.K., E. O. Sills, and D. Whittington. 2004. "Water supply coverage and cost recovery in Kathmandu: Understanding the role of time preferences and credit constraints." Presented at the NEUDC annual meetings, Montreal, Canada.
18. Sills, E.O., and S. K. Pattanayak. 2003 "Markets, modernization and the Mentawai: Explaining differences in forest dependence". Presented at the NEUDC annual meetings, Yale University, New Haven, Connecticut.
19. Jha, N., and SK. Pattanayak. 2006. "Looking beyond participation: Considering alternative paradigms for water and sanitation programs."
20. Butry, D.T., S. K. Pattanayak, D.E. Mercer, and E. Sills. 2005. "Applying Program Evaluation Methods to Natural Resource Policy: Are Wildfire Suppression Expenditures Worth It?"
21. Pattanayak, S.K., K. Jones, E. Sills, F. Cabbage, and B. Depro. "Evaluating Forest Policies: Categorizing Policy Options and Characterizing Implementation in North Carolina."
22. Alger, K., K. Cassingham, K. Jones, J. Munoz, S. K. Pattanayak, and E. Sills. "Watershed protection by forests: Vital ecosystem service or smoke and mirrors?"
23. Depro, B.M., S. K. Pattanayak and M. Renkow. 2005. "Environmental Service Payment Programs: Reassessing Promises Made by Economic Theory"
24. Whitehead, J. and S. K. Pattanayak. "Joint Estimation of Averting Expenditures and Willingness to Pay for Improved Water Services in Kathmandu".
25. Beach, R.H., S. K. Pattanayak, K. Jones, J-C. Yang, B. C. Murray, and R. C. Abt. "Determinants of Forest Management: An Econometric Analysis of Private Landowner Behavior in the Southern U.S."
26. Jones, K.M., E. O. Sills, S. K. Pattanayak, and S. Atmadja. 2005. "Using Rapid Rural Appraisal as an Inquiry-Guided Learning Instrument: Forest Dependency in Ghana."
27. Pattanayak, S. K., and G. Van Houtven, 1999. "Measuring Benefits of the Safe Drinking Water Act: A Framework for Combining Contingent Valuation and Averting Behavior Data."
28. Pattanayak, S.K., and D. Richter. "Evaluating the Myth: Forests Can be Sponges and not Merely Pumps." Durham: Nicholas School of the Environment, Duke University. May 1996.

Monographs and Other Communications

1. Marzolf, N. C., Pakhtigian, E. L., Burton, E., Jeuland, M., Pattanayak, S. K., Phillips, J., ... & Jacome, C. (2019). The Energy Access Dividend in Honduras and Haiti (Vol. 743). Inter-American Development Bank. https://publications.iadb.org/publications/english/document/The_Energy_Access_Dividend_in_Honduras_and_Haiti.pdf?download=true
2. SK Pattanayak. 2019. The Unseen Health Effects of Forest Fires. Policy 360 Podcast. Sep 5, 2019 <https://soundcloud.com/sanford-school-duke/the-unseen-health-effects-of-forest-fires>
3. Pattanayak, SK. 2019. Shedding Light on Rural Energy Access. Resources Radio, Resources for the Future. June 19, 2019. <https://www.resourcesmag.org/resources-radio/shedding-light-rural-energy-access-subhrendu-pattanayak>
4. Meeks, R, and SK Pattanayak. 2019. A Small Green Idea to Power Rural Nepal. Ways & Means Podcast. Mar 20, 2019. <https://waysandmeansshow.org/episodes/s4e3-a-green-idea-to-power-rural-nepal/>
5. Gill, I and SK Pattanayak, 2018. What panel data tell us about toilets in India. Future Development, Brookings Institution. September 20, 2018. <https://brook.gs/2NpgMtS>
6. Pattanayak, SK. F Usmani, H Girardeau. 2018. Achieving universal energy access by closing the gap between what we know and what we do. Future Development, Brookings Institution. May 1, 2018. <https://brook.gs/2HG2MZR>
7. Masatsugu, L and SK Pattanayak. 2017. New finance for old (technology) problems? Saving the planet with better cook stoves. Future Development, Brookings Institution. Jun 22, 2017. <http://brook.gs/2srtTi3>
8. Pattanayak, SK, MA Jeuland, JJ Lewis, V Bhojvaid, N Brooks, A Kar, L Morrison, O Patange, L Philippone, N Ramanathan, IH Rehman, R Thadani, M Vora, V Ramanathan. (2014). Designing and Evaluating Behavior

Change Interventions to Improve the Adoption and Use of Improved Cookstoves. Final report submitted to US AID.

9. Sills, EO, SK Pattanayak, A Pfaff, J Kirkpatrick, L Young, S Hall, D Shoch and R Dickson. 2014. Assessment of impact evaluation approaches for application to forest conservation initiatives in the Brazilian Amazon. For Mercy Corps, USAID and the Skoll Foundation.
10. Kohlin, G, EO Sills, SK Pattanayak, C Wilfong. 2011. Energy, Gender and Development. What are the Linkages? Where is the Evidence? Social Development Paper No. 125. Background Paper for the World Development Report 2012., commissioned by the Social Dimensions of Climate Change division of the World Bank. Washington, DC.
11. Sunderlin, WD, AM Larson, A Duchelle, EO Sills, C Luttrell, P Jagger, SK Pattanayak, P Cronkleton and AD Ekaputri. 2010. Technical guidelines for research on REDD+ project sites.
<http://www.cifor.org/nc/online-library/browse/view-publication/publication/3286.html>
12. Poulos, C., Patil, S.R., Pattanayak, S.K., & Chen, J. 2009. Monitoring and Evaluation of Health and Socio-economic Impacts of Water and Sanitation Initiatives in Andhra Pradesh, India. Report on one year tracking study. RTI International. Research Triangle Park, NC, USA.
13. Poulos, C., SK Pattanayak, SR Patil, J-C Yang. 2009. Monitoring and Evaluation of Health and Socio-economic Impacts of Water and Sanitation Initiatives in Andhra Pradesh, India. Report on Medium-Term Impacts. RTI International, Research Triangle Park, NC.
14. Pattanayak, S.K., 2009. Rough guide to impact evaluation of environmental and development programs. SANDEE Working Paper 40. <http://goo.gl/X47lWy>
http://www.sandeeonline.org/uploads/documents/publication/847_PUB_Working_Paper_40.pdf
15. Gunatilake, H., J-C. Yang, S.K. Pattanayak, and K. Choe. 2007. "Good Practices for Estimating Reliable Willingness-to-Pay Values in the Water Supply and Sanitation Sector." Economic Research Department, Technical Note No. 23. Asian Development Bank, Manila, Philippines.
http://www.adb.org/Documents/ERD/Technical_Notes/TNo23.pdf
16. Poulos, C., S.K. Pattanayak, and K. Jones. Guidelines for Impact Evaluations in the Water and Sanitation Sector. *Doing Impact Evaluations*. No. 4. World Bank, Washington, D.C. December 2006.
<http://go.worldbank.org/EO5KDJCT40>
17. Miller, J., S. Saha, E. Sills and S. K. Pattanayak. 2006. Forest livelihoods and iron ore mines in Orissa, India. *Sylvanet* 19 (1): 10-12.
18. van den Berg, C., S.K. Pattanayak, J. Yang, and H. Gunatilake. 2006. Getting the Assumptions Right: Private Sector Participation Transaction Design and the Poor in Southwest Sri Lanka. Water Supply and Sanitation Sector Board Discussion Paper No. 7, The World Bank.
19. Gunatilake, H., J-C. Yang, S.K. Pattanayak, and C. van den Berg. 2006. "Willingness to Pay Studies for Designing Water Supply and Sanitation Projects: A Good Practice Case Study." Economic Research Department, Technical Note No. 19. Asian Development Bank.
http://www.adb.org/Documents/ERD/Technical_Notes/TNo19.pdf
20. Pattanayak, S.K., C. van den Berg, G. Van Houtven and J-C Yang. 2005. "Uses of WTP Experiments: Estimating Demand for Piped Water Connections". World Bank Policy Research Working Paper 3818.
21. Yang, J-C, S.K. Pattanayak, C. Mansfield, F. R. Johnson, C. van den Berg, H. Gunatilake and K. Wendland. 2005. "Un-packaging Demand for Urban Water Supply: Evidence from Conjoint Surveys in Sri Lanka". World Bank Policy Research Working Paper 3817.
22. Pattanayak, S.K., J.C. Yang, K. Jones, H. Gunatilake, C. van den Berg, C. Agarwal, H. Bandara, and T. Ranasinghe. 2005. "Poverty Dimensions of Water, Sanitation and Hygiene in Southwest Sri Lanka." *Water Supply and Sanitation Working Note* 8. World Bank, Washington D.C.
23. Sills, E., and S.K. Pattanayak. 2004. "Reflections on West Africa." *Sylvanet* 17(1):19.
24. Foster, V., S.K. Pattanayak, and L.S. Prokopy. 2003. "Do Current Subsidies Reach the Poor?" In *Water Subsidies and Tariffs in South Asia (Paper 4)*, C. Brocklehurst (ed.), Washington DC: The Public Private

Infrastructure Advisory Facility, The World Bank.

25. Foster, V., S.K. Pattanayak, and L.S. Prokopy. 2003. "Can Subsidies be Better Targeted?" In *Water Subsidies and Tariffs in South Asia (Paper 5)*, C. Brocklehurst (ed.), Washington DC: The Public Private Infrastructure Advisory Facility, The World Bank.
26. Schuler, J. and S.K. Pattanayak. 2002. "Costa Rica's Innovative Conservation Initiatives: A View from a Bus." *Sylvanet* 15(2):10-13.
27. Pattanayak, S.K. 2001. "Forest Dependence: Orissa, India as a Natural Laboratory." *Sylvanet* 14(1): 3-5.
28. Kramer, R., D. Richter, and S. K. Pattanayak. 1995. "Spatial Dimensions of Environmental Impacts." In *Valuing Tropical Forests—Methodology and Case Study of Madagascar*, R. Kramer, N. Sharma, and M. Munasinghe (eds.), p. 42-50. World Bank Environment Paper 13. Washington, DC: World Bank.

Teaching and Advising

Courses Taught

1. Environment & Development Economics, Fall 2010 – 2016, Fall 2019
2. Public Economics, Spring 2009 - 2019
3. Global Environmental Health: Economics & Policy, Fall 2009 - 2018
4. Summer Institute in Development & Environment Economics, SANDEE, July 2015
5. Evaluation of Environmental Policies (Advanced Course), SANDEE, December 2014, 2018
6. Environmental Social Sciences Ph.D. Seminar, Spring 2014
7. Environmental Economics & Policy , Masters Project Seminar, Fall 2012 - Spring 2013
8. Evaluation of Development and Environmental Programs (short course), Summer 2007
9. Economics of Environmental Health (independent study), Spring 2006-2007
10. Forest Economics: Practical Methods for Public Policy Analysis (short course), Summer 2006
11. International Forestry Study Tours to Costa Rica (2002), Chile (2003) and Ghana (2004)
12. Forest Resource Economics, Spring 1998-2002
13. Evaluation of Public Expenditures, Fall 1997
14. Intermediate Microeconomics, 1991-1993

Ph.D. Students Advised

1. Pakhtigan, E. (primary advisor). *Ph.D. candidate*. Public Policy. Duke University
2. Usmani, F (primary advisor). *Ph.D. candidate*. University Program in Environmental Policy. Duke University
3. Orgill, J (co-advisor). *Ph.D.* University Program in Environmental Policy. Duke University
4. Das, I. *Ph.D. candidate*. University of North Carolina, Chapel Hill.
5. Crocker, J. University of North Carolina, Chapel Hill.
6. Allaire, M. 2016. Adapting to Extreme Events: Household Response to Floods in Megacities. University of North Carolina, Chapel Hill.
7. Lewis, JJ (primary advisor). 2015. Indoor Air Quality and Household Health. *Ph.D. candidate*. Duke University
8. Tan-Soo, JS., (primary advisor). 2015. Three Essays on Air Pollution in Developing Countries. *Ph.D. candidate*. University Program in Environmental Policy. Duke University
9. McGregor, J. 2014. (Examiner, High Seminar) *Ph.D. candidate*. Essays in environmental studies. Gothenburg University & Chalmers University, Sweden. Examiner, High Seminar.
10. Hassan, S. 2014. (Examiner, High Seminar). *Ph.D. candidate*. Three essays in energy economics. Economics Department, Gothenburg University, Sweden.
11. Gupta, K. 2014. (External examiner). The use of economic instruments to control solid waste: Experimental evidence on plastic bag use in India. University of Delhi, India.

12. Miteva, D. A. 2013. (primary advisor) Essays in Protecting Biodiversity in Developing Countries. Ph.D. Duke University
13. Valle, D. 2013. Modeling the effect of climate change and land cover change on malaria risk in the Brazilian Amazon. Ph.D. Duke University.
14. Sanglimsuwan, K. (co-advisor) April 2010. "Three essays on environmental health". Ph.D. North Carolina State University.
15. Bauch, S. January 2010. "Evaluation of Conservation Policies in the Brazilian Amazon." Ph.D. North Carolina State University.
16. Lumbantobing, R. July 2010. "Location decisions with respect to water availability: Evidence of sorting equilibrium in southwest Sri Lanka." Ph.D. North Carolina State University
17. Arriagada, R. July 2008. "Econometric evaluation of Costa Rica's payments for environmental services: Scaling up analysis to a national level and learning from policy implementation." Ph.D. North Carolina State University.
18. Atmadja, S. June 2008. "Time preferences for household behaviors: Natural resource and environmental health applications." Ph.D. North Carolina State University.
19. Saha, S. Ph.D. June 2008. "Social or spatial – Identifying neighborhoods that affect land use change in the Amazon." Ph.D. North Carolina State University.
20. Huang, J. May 2008. "An empirical analysis of adaptability to climate change and risk in forest management". Ph.D. North Carolina State University.
21. Dickinson, K.L. May 2008. "Household environmental health decisions in developing countries: Sanitation in India and bed-nets in Tanzania". Ph.D. Duke University.
22. Carrasco, L. E. April 2008. "Scale and strategy in environmental assessment of regional policies". Ph.D. North Carolina State University.
23. Huggett, R. 2003. "Fire in the Wildland-Urban Interface: An examination of the effects of wildfire on residential property markets." Ph.D. North Carolina State University.
24. Liese, C. 2003. "Renewable Resource Exploitation in a Developing Country: Motives, Markets and Migration in a Coral Reef Fishery". Ph.D. Duke University.

Masters and Undergraduate Students Advised

25. Robinette, F. Candidate. MPP Duke University.
 26. Comer, K. Candidate. MPP Duke University.
 27. Klug, T., 2018. Conservation and Cookstoves in Madagascar. Environmental Science and Policy. B.Sc, Duke University.
 28. Browning, N. 2017. Performance of community water management in Central America. MEM Duke University.
 29. Girardeau, H. 2017. Systematic review of adoption of solar home products. MEM Duke University.
 30. Litzow, E. 2017. Impacts of rural electrification in Bhutan.
 31. Masatsugu, L. 2017. Impacts of REDD+ on household energy. MEM Duke University.
 32. McKinney, J. 2017. Systematic review of how enabling environment influences LPG adoption. MPP Duke University.
 33. Borden, M. 2016. Social and Environmental Correlates of Palm Oil Certification in Indonesia. MPP Duke University.
 34. Sargent, M. 2014. "Forest certification". MEM Duke University.
 35. Morrison, L. 2014 (co-advisor). "Improved cookstove adoption in rural India: Innovative Financing to Promote Adoption". MPP Duke University.
 36. Brooks, N. 2014 (co-advisor). "Do improved cookstoves reduce biomass fuel consumption?" MPP Duke University.
 37. Nayak, P. 2013. Impact of risk preferences on technology adoption. MIDP Duke University.
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38. Lubet, A. 2013. Gender differential in household energy and health behaviors. MPP Duke University.
 39. Whitsett, D. 2013. Risk Factors for Household Black Carbon Emissions. MEM Duke University.
 40. Selbst, E. 2012. The impacts of property tax rebates on land conservation in North Carolina. MEM Duke University.
 41. Alunkal, M. 2012. Analyzing the link between workforce affordable housing and light rail. MEM Duke University.
 42. Das, I. 2012. "Gender differentiated health impacts of improved cooking technologies of rural households in India?". MPP Duke University.
 43. Lowdermilk, T.J. 2012. "Why do households use clean cooking technologies? An empirical study from India". MPP Duke University.
 44. Rai, S. May 2011. "An evaluation of the sustained impacts of a sanitation campaign in rural India". MPP Duke University.
 45. Birkenback, A. May 2011. "Land use and tropical Diseases: Examining linkages between forest protection and dengue fever in the Brazilian Amazon". MPP Duke University.
 46. Bruns, N. "Cooking stoves impact on forest conservation, climate change and health: mutually exclusive or synergistic Goals?" Independent Study. PPS undergraduate student. (Duke University).
 47. Lamarre-Vincent, J. May 2011. "What drives the adoption of stoves and improvements in respiratory health in Indonesia? Evidence from IFLS" MPP Duke University.
 48. Colvin, J. May 2011. "What drives country location of the Partnership for Clean Indoor Air?" MEM Duke University.
 49. Vergnano, E., May 2011. "Drivers of cookstove sales by the Partnership for Clean Indoor Air?" MEM Duke University.
 50. Kumar, R., May 2011 "What are the implications of Energy Poverty in India? Evidence from IDHS". MEM Duke University.
 51. Chen, J. May 2010. "Evaluating the benefits of a water quality intervention in rural India: A longitudinal study." MEM Duke University.
 52. Furlong, M. May 2010. "Impacts of Improved Biomass stoves and Local Institutions on Firewood Consumption, Health, and Welfare in Orissa, India" MPP Duke University.
 53. Tan-Soo, Jie Sheng. May 2010. "Economic valuation of flood mitigation services provided by tropical forests in Malaysia". MEM Duke University.
 54. Palley, J. May 2009. "Policy interventions that can reduce a small-scale gold miner's exposure: a cost-benefit analysis." MPP Duke University.
 55. Arriagada, R. 2004. "Estimating profitability and fertilizer demand for rice production around Palo Verde national park, Costa Rica". M.S. North Carolina State University.
 56. Depro, B. 2003. "Payments for environmental services: A preliminary assessment of the case for general equilibrium modeling." M.S. North Carolina State University.
 57. Lau, Y. 2002. "Evaluating the relationship between children's health and forest and water quality conditions in rural Indonesia." MEM. Duke University.
 58. Cassingham, K.M. 2001. "Voluntary conservation: Private landowner participation in North Carolina's Natural Heritage Program". M.S. North Carolina State University.
 59. Zurita, P. 2000. "Ecosystem valuation: Concept, theories, and empirics." MEM. Duke University.
 60. Clark, H. 2000. "Alternative fuel vehicles and corporate decision-making: Duke Energy as a case study." MEM. Duke University.
 61. Butry, D. 1999. "Tropical forest conservation in Ruteng Park: Welfare implications of a command and control strategy". MEM. Duke University.
 62. Tansey, H. 1999. "Economic impacts of sediment and sedimentation on electric utilities". MEM. Duke University.
 63. Muraoka, H., 1998. "How to create sustainable institutions for program operation and maintenance of
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irrigation systems in Orissa, India: New irrigation management system with local farmer". MEM Duke University.

64. Davidson, K.F., 1998. "Evaluating air Pollution Benefit Transfers: An Analysis of the EPA's Benefits Assessment Methodology for VOC Emission Reductions in the Pulp and Paper Industry." MEM Duke University.
65. Latimer, W., 1998. "Efficiency counts: Measuring forest management efficiency." MEM Duke University.
66. Hooks, C.D., 1998. "Profitability of the national forests timber sale's program: An Alabama case study". MF Duke University.
67. Cook, J., 1998. "Fluorescent lamp disposal: A cost-effectiveness analysis". MEM Duke University.
68. Mehta, A. 1998. "Parks and People: Evaluating the impact of protected areas on local development." MEM Duke University.

South Asian Network of Development & Environmental Economics (SANDEE) Projects Supervised

69. Kiani, A. 2017. Housing values and water & sanitation in Pakistan.
70. Menon, M. 2017. Ecosystem services and paddy farming in Kerala.
71. Tshering, T. 2017. Impacts of electrification in Bhutan.
72. Rodrigo, C. 2016. Organic rice production in Sri Lanka.
73. Amit, RK. 2015. Unreliable water supply in Chennai, India.
74. Rabbani, A. 2013 - Identifying the causal links between local political leadership & sanitation
75. Dendup, N. 2012 - 2014. Hedonic property model of water and sewage infrastructure in Bhutan.
76. Akram, W. 2012 - . Adoption of biogas in Faisalabad, Pakistan.
77. Das, S. 2011 - 2013. Using awareness as an adaptation strategy for climate related health impacts in India.
78. Rao, M. 2010 - Greenhouse gases and alternative cooking energy in India.
79. Goswami, K. 2010 - 2012. Sustainability of biodiesel industry in North East India.
80. Sharma, BP. 2010 - . Impacts of REDD Payments on Livelihoods and Local Economic Development in Nepal.
81. Hazra, S., 2010 - 2013. Social cost-benefit analysis of bio-gas technology in Orissa, India.
82. Gupta, K. 2009 – 2011. Consumer responses to incentives to reduce plastic bag use in urban India.
83. Madulige, UJ. 2008 - 2010. Motives for firms to adopt solid waste management controls: Case of food processing sector in Sri Lanka.
84. Mohaprashasta. J. 2008 – 2011. Economics of urban drainage: Case study of Cuttack, India.
85. Irfan, M. 2008 – 2011. Evaluating the impact of the open sewage system on housing prices in Rawalpindi City, Pakistan.
86. Thakuri, MBM. 2006 - 2008. The burden of indoor air pollution and viability of mitigation efforts: Case study from rural Nepal.
87. Alam, M. 2006 – 2008. Water, sanitation, and diarrhea in Dhaka, Bangladesh.
88. Pant, KP. 2005 – 2008. Demand for Technologies to Reduce Costs of Indoor Air Pollution in Central Nepal.
89. Chopra, N & Singh, S. 2005 – 2007. The effect of natural resource scarcity on household's and women's time allocation decisions in Rural India.

University Service

1. Director of Public Policy Ph.D. Program, 2019 –
2. (Chair) Associate Professor Promotion Committee (Sanford), 2019
3. Duke Center for International Development Management Committee, 2017 -
4. Mentoring Committees for Associate & Assistant Professors, 2012 –
5. Ph.D. Admissions in Public Policy (Sanford), 2019-20
6. Faculty Director, The Energy Access Project at Duke, 2017 – 2018.
7. (Chair) Associate Professor Promotion Committee (Sanford), 2017

8. Sanford Dean Search Committee, 2017
9. Executive Committee (Sanford), 2015-17
10. Energy Policy Search Committee (Sanford), 2016-17
11. International Development Policy Search Committee (Sanford), 2016-17
12. Associate Professor Promotion Committee Chair (Nicholas), 2016
13. International Development Director Search Committee (Sanford), 2016
14. Assistant Professor Reappointment Committee (Nicholas), 2014
15. Associate Professor Promotion Committee (Sanford), 2013
16. Vice Provost Search Committee (Duke), 2013 - 2014.
17. Assistant Professor Reappointment Committee (Sanford), 2012-14
18. Assistant Professor Mentoring Committee (DGHI), 2012-13
19. Ph.D. Admissions in Environmental Policy (Nicholas & Sanford), 2009-11
20. Assistant Professor Promotion & Tenure (Sanford), 2009-10
21. Junior Faculty Cluster Search in Global Governance (Sanford), 2009-10
22. Junior Faculty Search in Global Environmental Health (Nicholas), 2009-10
23. Task Force on Energy and Environment (Duke), 2009-10
24. Secondary Appointments to Sanford Institute, 2008-09
25. Assistant Professor Review Committee (Sanford), 2008-09
26. Ph.D. Admissions in Public Policy (Sanford), 2008-09

Conferences and Invited Talks

- 2019** SANDEE Research & Training Workshop, Kunming, China; National School of Development, Peking University, Beijing, China; Renmin University, China; Environment for Development Annual Meeting, Bogota, Colombia; London School of Hygiene & Tropical Medicine, London, UK; Yangon University of Economics, Yangon, Myanmar; Social Sciences & Humanities Research Council, Vancouver, Canada; Clean Cooking Alliance, Washington, DCA; European Association for Environmental and Resource Economics (Manchester); SANDEE Biannual Research & Training Workshop, Kathmandu, Nepal; SETI Annual Meetings, Santiago, Chile.
- 2018** SANDEE Biannual Research & Training Workshop, Kathmandu, Nepal; Environment for Development Annual Meeting, Hanoi, Vietnam; Inter-American Development Bank, (DC); Paris School of Economics; ETH Zurich; RWI Essen; World Congress of Environmental and Resource Economics; University of Cambridge, UK; London School of Economics, UK; Lee Kuan Yew School of Public Policy, National University of Singapore, Singapore Bugas Lectures, University of Wyoming; University of Reading, UK; Grand Rounds Seminar, Johns Hopkins University; Wolman Seminar, Johns Hopkins University; University of British Columbia, Vancouver; Sackler Colloquium, National Academy of Sciences.
- 2017** SANDEE Biannual Research & Training Workshop, Kathmandu, Nepal; Ohio State University; University of California, Santa Barbara; Environment for Development Annual Meeting, Addis Ababa, Ethiopia; SOAS University of London; Research Nucleus in Environmental and Natural Resource Economics, Paral, Chile; University of British Columbia (Vancouver); Gathering Voices Society (Tofino); Resources for the Future; Institute for Ecosystems Research and Sustainability, National Autonomous University of Mexico (Morelia); European Association for Environmental and Resource Economics (Athens); Fogarty International, NIH (Washington); SETI Annual Meeting, Durham, NC; Toulouse School of Economics (Toulouse); The Nature Conservancy (Arlington); University of Gothenburg; Arizona State University; National Council for Science and Environment (Washington DC)
- 2016** SANDEE Biannual Research & Training Workshop, Pokhara, Nepal; Environment for Development
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Annual Meeting, Pucon, Chile; Center for Socioeconomic Impact of Environmental Policies, Talca, Chile; Science for Nature and People Partnership, East Kalimantan, Indonesia; Energy and Economic Growth, UC Berkeley, Washington, DC; Global Environmental Health Day, NIEHS, Research Triangle Park; Rockefeller Foundation, Bellagio, Italy; Fogarty International, NIH, Washington; SETI Annual Meetings, Durham, NC. Consortium of Universities for Global Health, San Francisco; Ministry of Foreign Affairs & Expert Group for Aid Studies, Stockholm, Sweden; Institute for Economy and Environment, Portland, Oregon.

- 2015** International Centre for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal; Center for Socioeconomic Impact of Environmental Policies (CESIEP), Santiago, Chile; Environment for Development Annual Meetings, Shanghai, China; Center for Research on the Economics of Climate, Food, Environment and Energy (CECFEE), New Delhi; Nicholas Institute for Environmental Policy Solutions 10th Anniversary, Durham, N Carolina; Summer School in Environmental and Resource Economics, SANDEE, Negombo, Sri Lanka; European Environmental and Resource Economics (Annual meetings), Helsinki, Finland; Ethiopian Development Research Institute, Addis Ababa, Ethiopia; Global Alliance for Clean Cookstoves, Lima, Peru; Investigación en Desarrollo, Economía y Ambiente, Turrialba, Costa Rica; Next Generation Models for Ecosystem Services and Biodiversity, Leipzig, Germany; Research Nucleus in Environmental and Natural Resource Economics, Paral, Chile;
- 2014** Beijer Institute & Stockholm Resilience Center, Stockholm; Environment for Development Annual Meetings, Dar e Salam, Tanzania; University of Namur, Belgium; Rheinisch-Westfälisches Institute (RWI), Essen, Germany; Gothenburg University, Sweden; Indian Statistical Institute, Delhi; Rockefeller Foundation, Bellagio, Italy; Gund Institute, University of Vermont; Measuring, Valuing & Managing Ecosystem Services, ATREE-SANDEE, Bangalore; RTI International, Research Triangle Park; Allied Social Sciences Annual meetings, Philadelphia
- 2013** Southern Economic Association, Tampa, FL (session organizer and chair); University of Namur, Belgium; Natural Capital Working Group, Stanford University, Palo Alto, CA; National Bureau of Economic Research, Cambridge, MA; University of Minnesota, St. Paul; Arizona State University, Phoenix; Chicago Council for Global Affairs, Chicago; Low Carbon Development and Poverty Reduction (University of Gottingen & ISI), New Delhi; Rockefeller Foundation, New York; Allied Social Sciences Annual meetings, San Diego (2 papers)
- 2012** University of North Carolina, Greensboro; Environment for Development, Arenal Costa Rica; Camp Resources, Wilmington, NC; European Association of Environmental & Resource Economics Annual Meetings, Prague; Association of Environmental & Resource Economics Annual Meetings, Asheville, NC; World Wildlife Fund, Washington, DC; University of Maryland, Department of Economics, College Park; Appalachian State University, Boone, NC; Office of Air & Radiation, US Environmental Protection Agency, Research Triangle Park, NC; University of North Carolina, Chapel Hill
- 2011** Asian Institute of Public Health, Bhubaneswar, Orissa, India; Kathryn Fuller Science Symposium, WWF, Washington DC; Cambridge University, Cambridge (UK); Camp Resources, Wilmington, North Carolina; National Bureau of Economic Research, Cambridge, MA; Ravenshaw University, Orissa, India; Project Surya Briefing, NSF-NIH-US State Department, Washington DC; Conservation Impact Evaluation 2.0, Duke & World Wildlife Fund, Durham; Virginia Polytechnique and State University, Blacksburg (VA); Forest Tenure Impact Evaluation Workshop, Environment for Development Network & World Bank; Princeton University, Princeton
- 2010** Economic Growth & Development, Indian Statistical Institute, Delhi, India; Environment & Development in South Asia, Kathmandu, Nepal; Institute of Mathematics & Applications,

Bhubaneswar, Orissa, India; World Congress of Environmental and Resource Economists, Montreal (4 papers); Annual Bank Conference on Development Economics, Stockholm (2 papers); Conservation International, Arlington, Virginia; CIFOR's Global Comparative Study on REDD+, Chapel Hill, North Carolina; Allied Social Sciences Annual meetings, Atlanta (2 papers)

2009 Economic Growth & Development, Indian Statistical Institute, Delhi, India; Camp Resources, Asheville, North Carolina; Managing Toxic Risks, Duke University

2008 Healthy environments, healthy people; International EcoHealth Forum, Merida, Mexico; Public health without borders, American Public Health Association, San Diego (4 papers); Rediscovering health communication and marketing, George Washington University, Washington DC; Forests and human health, Center for International Forestry, Wilson Center, Washington DC; American Agricultural Economics Association, Florida; European Association of Environment and Resource Economics, Gothenberg, Sweden (5 papers); Equity and Efficiency in Health, American Society of Health Economics, Durham (2 papers); Health and the Environment, AERE workshop, Berkeley; School of Public Policy, Georgia Tech University, Atlanta; 5th Midwest International Economic Development Conference, Madison (3 papers); Poverty Impact Analysis & Monitoring and Evaluation in Water and Sanitation, World Bank, DC; Department of Environmental Science, Policy and Management, University of California, Berkeley; 5th Indian Association for Social Sciences and Health conference, Bhubaneswar; Department of Environmental Studies, Emory University, Atlanta; Department of Agricultural and Applied Economics, University of Wisconsin, Madison; Sustainable Development Department, Middle East & North Africa Region, World Bank, DC; Sanford Institute for Public Policy, Duke University; Conservation Economics for the Tropics, Gordon and Betty Moore Foundation, San Francisco; Department of Economics, Emory University, Atlanta; Climate Science and Policy, SANDEE, Bangkok; Allied Social Sciences Annual meetings, New Orleans

2007 Comparative Development, Indian Statistical Institute, Delhi, India; Center for International Forestry, Bogor, Indonesia; Pan-Amazonian Meeting on Health and the Environment, OTCA, Manaus, Brazil; Department of Population Health and Pathobiology, North Carolina State University, Raleigh; Millennium Challenge Corporation, Washington DC; American Public Health Association, Washington DC (poster); Rollins School of Public Health, Emory University, Atlanta; Triangle Resource and Environmental Economics Workshop, NC State University, Raleigh; Infectious Diseases, Development and Social Science, Cornell University, Ithaca; American Agricultural Economics Association, Portland, Oregon; 6th World Congress, International Health Economics Association, Copenhagen (poster); Northeastern Agricultural and Resource Economics Association, Rehoboth Beach, Delaware; Monitoring and Evaluation in Rural and Small Towns Water and Sanitation, World Bank, Washington; Valuation and Incentives for Ecosystem Services, AERE workshop, Mystic, Connecticut; Department of Rural Economy, Alberta, Canada; Department of Economics, University of California, Riverside; Department of Resource Economics, University of Nevada, Reno; 4th Minnesota International Economic Development Conference, Minneapolis; Valuation for Environmental Policy: Ecological Benefit, National Council for Economic Research, DC; Government of Orissa, Bhubaneswar, India; Government of Maharashtra, Mumbai, India; Expanding Freedom, Institute of Economic Growth, Delhi, India; School of Public Health, Department of Epidemiology, University of California, Berkeley, CA; Pacific Conference for Development Economics, Davis, California; Department of Economics, University of California, Berkeley, CA; Integrating Environment and Health, National Council for Science & the Environment, Washington DC; Sustainable Development and Livelihoods, Delhi School of Economics, India; Allied Social Sciences Annual meetings, Chicago, Illinois

2006 9th Biennial Conference of the International Society for Ecological Economics, Delhi, India; Emerging

Population Issues in the Asia Pacific, Indian Institute for Population Sciences, Mumbai, India; Ecosystem Services in the NeoTropics International Congress, Valdivia, Chile.; Third Chilean Congress of Forest Sciences organized by the Faculty of Forestry, Concepcion, Chile; Southern Economics Association Meetings, Charleston, South Carolina; Energy and Resources Group, University of California, Berkeley, CA; Crises in Agriculture and Resource Sectors; Analysis of Policy Responses, Calgary, Canada; Ecohealth One, University of Wisconsin, Madison, Wisconsin; EcoMarkets Workshop (FONAFIFO and the World Bank) San Jose, Costa Rica; Biodiversity and Human Health Workshop. U.S E.P.A and Yale University. Washington, DC; Nicholas Institute, Duke University, Durham, N.C; Indian Statistical Institute, New Delhi, India; Camp Resources XIV, Wilmington, NC; Center for Applied Biodiversity Sciences, Conservation International, Washington DC; Society of Conservation Biology, San Jose, California; Center for International Forestry Research, Belem, Para, Brazil; 3rd World Congress of Environmental and Resource Economists, Kyoto, Japan; Resources for the Future, Washington, DC; Department of Applied Economics, University of Minnesota, St. Paul, MN; Exploring the Frontiers of Science, RTI Fellows Symposium, Chapel Hill, NC; Action Planning Workshop on Growth and Environment in Orissa, Bhubaneswar, India; US Centers for Disease Control and Indian Council of Medical Research, Kolkata, India; Allied Social Sciences Annual meetings, Boston, MA

- 2005** Northeast University Development Conference, Providence, RI; Camp Resources XIII, Wilmington, NC; National Bureau of Economics Research, Public Economics and the Environment, Cambridge, MA; Ecosystem Services and Biodiversity in Developing Countries, Research Network for Environment and Development (ReNED), Copenhagen, Denmark; South Asia Network of Environment and Development Economics (SANDEE), Bangalore, India; Economy and Environment Program for Southeast Asia (EEPSEA), Singapore; National Science Foundation's Biocomplexity Initiative, Santa Fe, New Mexico; Benefits Transfer and Valuation Databases, EVRI & USEPA, Washington, DC; Water Week, World Bank, Washington, DC
- 2004** Refining Biodiversity Conservation Corridors workshop in Alter do Chão, Para, Brazil; The World Bank, New Delhi, India; Conservation International's Board of Directors, Seattle, WA; Northeast University Development Conference, Montreal, Canada; Conservation International, Washington, DC; Public Health and Rural Water Supply and Sanitation, World Bank, Washington, DC; Duke University's Center for Environmental Solutions, Durham, NC
- 2003** Northeast University Development Conference, New Haven, CT; Allied Social Sciences Annual meetings, Washington, DC
- 2002** Forestry and Agriculture Greenhouse Gas Modeling Forum, USEPA, Shepherdstown, WV; Camp Resources IX, Wilmington, NC; 2nd World Congress of Environmental and Resource Economists, Monterrey, CA; North Carolina Water Resources Conference, Raleigh, NC; Southern Forest Economics Workshop, Virginia Beach, VA; Allied Social Sciences Annual meetings, Atlanta, GA
- 2001** College of Natural Resources, North Carolina State University, Raleigh, NC; Camp Resources VIII, Wilmington, NC; Southern Forest Economics Workshop, Atlanta, GA; New Developments in Benefits Transfer Workshop, Research Triangle Park, NC; Allied Social Sciences Annual meetings, New Orleans, LA
- 2000** Institute of Life Sciences, Utkal University, Bhubaneswar, India; Western Economics Association meetings, Vancouver, Canada; Southern Forest Economics Workshop, Lexington, VA; Allied Social Sciences Annual meetings, Boston, MA
- 1999** Office of Policy, US EPA, Washington, DC; College of Forest Resources, North Carolina State

University, Raleigh, NC; American Agricultural Economics Association, Nashville, TN ; Camp Resources VII, Wilmington, NC; International Center for Research on Agroforestry, Chiang Mai, Thailand; Allied Social Science Association, New York, NY

- 1998** Southern Economics Association Meetings, Baltimore, MD, November; U.S. EPA, Office of Water, Washington, DC; American Agricultural Economics Association, Salt Lake City, UT; 1st World Congress of Environmental and Resource Economists, Venice, Italy; Southern Forest Economics Workshop, Williamsburg, VA; Allied Social Sciences Association Annual Meetings, Chicago, IL
- 1997** American Agricultural Economics Association, Summer Meetings, Toronto, Canada; Association of Environmental and Resource Economists Workshop, Annapolis, MD; Camp Resources V, Wilmington
- 1996** Tata Energy Research Institute, India, New Delhi, India; Camp Resources IV, Wilmington, NC

Research Grants

1. Powering for Climate Action through Gendered Energy Access in Myanmar. Canadian International Development Research Centre \$423,000 (PI).
2. Social-Ecological Relationships of Household Energy, Forests and Farms. Partnership Development Grants, Social Sciences and Humanities Research Council of Canada. CAD 186,000 (co-PI)
3. Local Governance of Forest Resources: Development, Environment and Political Economy in Nepal, UKAid and French National Research Agency. €240 000 (co-PI).
4. Impacts and Drivers of Policies for Electricity Access: Micro-and-Macro economic evidence from Ethiopia. Energy & Economic Growth Program of Oxford Policy Management and DFID, United Kingdom. £400,000 (co-PI)
5. Opening the black box of information interventions: Evidence from India. International Growth Center, United Kingdom. (co-PI)
6. So the Dam Doesn't Break: Understanding Mini-Grid Infrastructure Sustainability in Nepal. Energy Research Seed Grant. Duke University Energy Initiative, US. \$75,000 (co-PI).
7. Examining farmer adoption of conservation agriculture in the Indo-Gangetic Plains. Nature Net Fellowship, TNC. (co-PI)
8. Air pollution in Asian mega-cities. Environment for Development Program (EfD), Sweden (2017-present). \$50,000 [co-PI].
9. The Energy Access Dividend in Latin America. Inter-American Development Bank. Washington, DC.
10. Private Gift, matched by Duke University Bass Connections Program (2017 -2020). The Energy Access Project at Duke. \$2,250,000 [co-PI & Faculty Director - SK Pattanayak]
11. Use and Impacts of electric induction stoves in India. Environment for Development Program (EfD), Sweden (2017-present). \$50,000 [co-PI – SK Pattanayak].
12. Swedish International Cooperation Agency (SIDA) and Environment for Development, University of Gothenburg (2016 -2020). Sustainable energy transitions initiative. \$860,000 [PI – SK Pattanayak].
13. Duke University Bass Connections (2016-present). Cookstoves and Air Pollution in Madagascar: Finding "Winning" Solutions for Human Health and Biodiversity. \$50,000 [co-PI – SK Pattanayak].
14. "Energy transitions research: Piloting in Chile, China, Ethiopia and India. (Planning grant)." Environment for Development Program (EfD), Sweden (2015-present). \$30,000 [PI – SK Pattanayak].
15. "Complementarity of Environmental Health Interventions". Collaborative Initiative Duke University & Indian Institute of Management (Udaipur), \$50,000 [co-PI – SK Pattanayak].
16. "Designing and Evaluating Behavior Change Intervention to Improve the Adoption and Use of Cookstoves". USAID. 2011-2013, \$467,000 [coPI – SK Pattanayak]
17. "Health, Environmental, and Climate Impacts of Household Energy Choices in India". (Problem-Focused Interdisciplinary Research-Scholarship Teams - PFIRST, Duke Provost Funds) 2011-2013. \$114,000. [PI – SK

Pattanayak]

18. "Household Energy & Health Initiative" (Duke Global Health Institute) 2010-11, \$45,000. [PI – SK Pattanayak]
19. "Evidence based conservation". Duke-World Wildlife Fund. \$30,000, 2011-13. [PI – SK Pattanayak]
20. "Economics of forest conservation in the tropics" (Center for International Forestry Research) 2009-12 [PI – SK Pattanayak]
21. "Triangle Working Group on REDD" (RTI International University Collaboration Fund), 2010-11 [co-PI SK Pattanayak].
22. "Climate change, conservation medicine, and environmental health" (Conservation International, Center for Applied Biodiversity Sciences) 2008-09, \$25,000. [PI – SK Pattanayak]
23. "Experimental evaluation of household responses to water quality testing in rural India." (Acumen Fund) 2010-11, \$106,000. [PI – SK Pattanayak]
24. "Monitoring and Evaluation of Health and Socio-Economic Impacts of Water and Sanitation Initiatives" (Acumen Fund, Water Innovations Portfolio) 2006-10, \$327,000. [PI – SK Pattanayak]
25. "Living with deforestation: Analyzing transformations in welfare and land use on an old Amazonian frontier" (National Science Foundation), 2008 – 2011, \$503,000. [co-PIs – J Caviglia-Harris, D Roberts, EO Sills, Sr. Economist – SK Pattanayak]
26. "Guidelines for Implementation of Stated Preferences Studies for Water Supply and Sanitation Projects" (Asian Development Bank, Economic Research Department) 2006-07, \$32,800. [PI – SK Pattanayak]
27. "Point-of-Use Household Water Treatment and Storage Products for Low- and Middle-Income Populations in Two States in India" (Program for Appropriate Technology in Health), 2007-08, \$190,000. [PI – CA Poulos, Technical Advisor – SK Pattanayak]
28. "Environmental Health Valuation in Conservation Hotspots" (Conservation International, Center for Applied Biodiversity Sciences) 2006-07, \$29,990. [PI – SK Pattanayak]
29. "Guidelines for Monitoring and Evaluation of the Water and Sanitation Sectors" (The World Bank, Development Impact Evaluation Initiative) 2005-06, \$20,000. [PI – SK Pattanayak]
30. "Economics of Environmental Epidemiology" (RTI International, Internal Research and Development Grant) 2005-06, \$50,000. [co-PIs – SK Pattanayak, CA Poulos, and GL Van Houtven]
31. "Randomized community trial of intensive hygiene information, education and communication campaigns in Orissa, India" (The World Bank, South Asia Environment and Social Development Unit) 2004-07, \$300,000. [PI – SK Pattanayak]
32. "Environmental health outcomes of improving rural water supply, sanitation, and hygiene in Maharashtra, India" (The World Bank, South Asia Environment and Social Development Unit) 2004-07, \$1,100,000. [PI – SK Pattanayak]
33. "Mining, Biodiversity, and Forest Dependence in Orissa, India: Inputs to Benefits Sharing Agreements" (The World Bank, South Asia Environment and Social Development Unit) 2005-06, \$52,505. [PI – SK Pattanayak]
34. "Private Provision of Public Goods: Applying Matching Estimators to Evaluate 'Direct Payments' for Tropical Forest Conservation" (National Science Foundation, USA and Government of Costa Rica) 2005-06, \$70,000. [co-PIs – PJ Ferraro, SK Pattanayak, and EO Sills]
35. "Rural livelihoods, environmental health, and ecosystem services" (Conservation International, Center for Applied Biodiversity Sciences) 2004-05, \$71,000. [PI – SK Pattanayak]
36. "Poverty mapping for geographic targeting in Sri Lanka" (The World Bank, Energy and Water Department) 2004-05, \$23,000. [PI – SK Pattanayak]
37. "Structural benefits transfer – tying utility theory to ecosystem valuation" (U.S. EPA, National Center for Environmental Research, Science to Achieve Results Grants Program) 2003-06, \$260,000. [Co-PIs – SK Pattanayak, GL Van Houtven, VK Smith]
38. "Evaluating US forest policies: New econometric tools from "program evaluation" (U.S. Forest Service, Economics Research Unit) 2003-05, \$25,000. [co-PIs – SK Pattanayak and EO Sills]

39. "Poverty, water and sanitation in southwest Sri Lanka" (The World Bank, Energy and Water Department) 2003-04, \$205,000. [PI – SK Pattanayak]
40. "Timber market modeling: Harvesting, management, investment, and land use" (U.S. Forest Service, Economics Research Unit) 2001-06, \$350,000 [co-PIs – D Wear, R Abt, F Cabbage, BC Murray, SK Pattanayak, M Clutter, and J Siry]
41. "Regional vulnerability of forest resources to environmental stresses" (U.S. EPA, National Center for Environmental Research, Science to Achieve Results Grants Program) 2000-04, \$399,365 [PIs – R Abt, BC Murray, S McNulty, Sr. Economist – SK Pattanayak]
42. "Econometric models of forest amenities and aesthetics" (U.S. Forest Service, Economics Research Unit) 2002-04, \$30,000. [co-PIs – SK Pattanayak and EO Sills]
43. "Econometric models of tree planting" (U.S. Forest Service, Economics Research Unit) 2002-04, \$25,000. [co-PIs – SK and EO Sills]
44. "Distributional incidence of water sector subsidies in south Asia" (The World Bank, South Asia Energy and Infrastructure Department) 2002, \$25,000. [PI – SK Pattanayak]
45. "Assessing water quality implications of terrestrial carbon sequestration strategies" (U.S. EPA, Office of Air and Radiation) 2001-02, \$70,000. [PI – SK Pattanayak]
46. "Forests in a Market Economy" (RTI International, Profession Development Award) 2001-02, \$26,360. [Co-PIs – BC Murray and SK Pattanayak]
47. "Benefits transfer for mortality risk reduction using preference calibration" (U.S. EPA, Office of Air Quality Planning and Standards, and Health Canada, Economic Analysis and Evaluation Division) 2001-02, \$75,000. [Co-PIs – SK Pattanayak, GL Van Houtven, VK Smith]
48. "International health benefits transfer" (Health Canada, Environment and Safety Branch, Economic Analysis and Evaluation Division) 2001, \$16,000. [PI – SK Pattanayak]
49. "Contingent valuation of improved water supply in Kathmandu" (The World Bank, Water and Sanitation Program) 2001-02, \$120,000. [PI – SK Pattanayak]
50. "Economics of Water Quality Valuation" (U.S. EPA, Office of Water) 2001-2005. \$585,000. [PI – GL Van Houtven; Sr. Economist – SK Pattanayak]
51. "Economic analysis of air pollution regulations: Paper and other web coatings" (U.S. EPA, Office of Air Quality Planning and Standards) 1999 – 2001, \$45,000. [PI – SK Pattanayak]
52. "Economic analysis of air pollution regulations: Rubber tire manufacturing" (U.S. EPA, Office of Air Quality Planning and Standards) 1999 – 2000, \$50,000. [PI – SK Pattanayak]
53. "Benefits of agroforestry" (U.S. Forest Service, Economic Research Unit) 1999 – 2001, \$18,000. [PI – SK Pattanayak]
54. "Improving the practice of benefits transfers for analysis of water pollution regulations" (U.S. EPA, National Center for Environmental Economics) 1998 - 2001. \$75,000. [Co-PIs – SK Pattanayak, GL Van Houtven, VK Smith]
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