

G. Andrew Stainback

Baylor University, Department of Environmental Science | BSB A.421, One Bear Place #97266, Waco, TX 76798-7266 | +1 254 710 6566 | andrew_stainback@baylor.edu

Education

J.D. | 2006 | FLORIDA STATE UNIVERSITY

- Major: Law
- Honors: Deborah K. Kearney Jurisprudence Book Award for Academic Excellence

PH.D. | 2002 | UNIVERSITY OF FLORIDA

- School: Forest Resources and Conservation
- Specialization: Natural Resource Economics
- Advisor: Dr. Janaki R.R. Alavalapati
- Honors: 2002 School of Forest Resources and Conservation Outstanding Dissertation

M.S. | 1998 | UNIVERSITY OF MONTANA

- Major: Resource Conservation
- Specialization: Natural Resource Policy and Economics
- Advisor: Dr. David Jackson

B.S. | 1995 | VIRGINIA TECH

- Major: Biochemistry
- Minors: Biology, Chemistry
- Honors: cum laude

Skills

TEACHING

- Environment Science, Ecological Economics, Environmental Law and Policy, Sustainable Development, Human Dimensions of Natural Resource Management, Statistics, Data Science

RESEARCH AND CONSULTING

- Valuation of natural resources and ecosystem services using choice experiment surveys, contingent valuation, hedonic valuation, and multi-criteria analysis. Focus group and survey research to gather stakeholder and community preferences for agriculture and conservation policy, economic development, and sustainable natural resource management. Economic impact and contribution analysis, ecological-economic modeling, applied econometrics.

SOFTWARE

- Python, Stata, R, IMPLAN, Qualtrics, Microsoft Office

LANGUAGES

English: Good proficiency (native)

Professional Experience

LECTURER | BAYLOR UNIVERSITY, DEPARTMENT OF ENVIRONMENTAL SCIENCE | AUGUST 2023-PRESENT

- Undergraduate Courses: Exploring Environmental Issues, Environment and Society, The Environment and Economic Analysis, Sustainability and Natural Resource Management

HONORARY RESEARCH FELLOW | CENTER FOR EXCELLENCE IN BIODIVERSITY AND NATURAL RESOURCE MANAGEMENT, UNIVERSITY OF RWANDA | OCTOBER 2021-PRESENT

- Responsibilities: Research and student advising in ecological economics and the human dimensions of natural resource management.

FOUNDER AND CONSULTANT | CONSERVATION ECONOMICS FOR SUSTAINABLE DEVELOPMENT, LTD. | JULY 2021-PRESENT

- Responsibilities: Consulting and data analysis for sustainable natural resource management, agriculture, and economic development. Research project management.

ECOLOGICAL ECONOMIST | EVERGLADES FOUNDATION | JANUARY 2016-JUNE 2021

- Responsibilities: Quantify and monetize ecosystem services, green job creation, performance metrics for social well-being, analyze economic and statistical data as applied to public and private water resources projects for ecological restoration.

ASSISTANT PROFESSOR | UNIVERSITY OF KENTUCKY, DEPARTMENT OF FORESTRY | JULY 2009-DECEMBER 2015

- Graduate Courses Taught: Natural Resource and Environmental Valuation, International Environmental Law, Ecological Economics, Natural Resource Policy and Law, The Policy and Economics of Ecosystem Services, Resources in a Global Perspective (team taught)
- Undergraduate Courses Taught: Natural Resource and Environmental Policy Analysis, Forestry and Natural Resource Ethics, Human Dimensions of Forestry and Natural Resources, Forest Policy

ASSISTANT PROFESSOR | STATE UNIVERSITY OF NEW YORK, PLATTSBURGH, DEPARTMENT OF ENVIRONMENTAL SCIENCE | AUGUST 2007-MAY 2009

- Undergraduate Courses Taught: Environmental Law, Environment and Society, Environmental Management, Environmental Science Seminar

VISITING ASSISTANT PROFESSOR OF ECONOMICS | GEORGIA SOUTHWESTERN STATE UNIVERSITY, DEPARTMENT OF HISTORY AND POLITICAL SCIENCE | AUGUST 2006-MAY 2007

- Undergraduate Courses Taught: Principles of Microeconomics, Principles of Macroeconomics

POST-DOCTORAL FELLOW | UNIVERSITY OF FLORIDA, SCHOOL OF FOREST RESOURCES AND CONSERVATION | AUGUST 2002-MAY 2003

- Responsibilities: Assist faculty in the School of Forest Resources and Conservation in conducting economic research and publishing peer-reviewed articles

Current and Recent Projects

PUBLIC PREFERENCES FOR LAKE OKEECHOBEE MANAGEMENT | AUGUST 2020-PRESENT

Everglades Foundation Scholar project to use choice experiment surveys to estimate the preferences of the general public and recreational anglers for outcomes expected from changes in Lake Okeechobee Management. Role: Investigator.

ECOSYSTEM-BASED ADAPTATION THROUGH COMMUNITY-BASED BUTTERFLY FARMING AT IBANDA MAKERA FOREST, RWANDA | JULY 2022-OCTOBER 2025

Research project with the University of Rwanda to use attitudinal and choice experiment surveys to study the attitudes, constraints, and socioeconomic needs of the local community in adopting butterfly farming around the Ibanda Makera forest in Rwanda. Role: Co-Principal Investigator

ASSESSMENT OF UNDP/UNEP POVERTY ENVIRONMENT ACTION FOR SUSTAINABLE DEVELOPMENT GOALS IN RWANDA | AUGUST 2022-APRIL 2023

Consulting project for the Rwandan Environmental Management Authority and the United Nations Development Program. The project assessed the impact of the UNDP/UNEP Rwanda Poverty Environment Action program to address the relationship between unsustainable management of the environment and natural resources and multi-dimensional poverty in Rwanda. Role: Lead Consultant

EFFECTIVENESS OF DIFFERENT LIVELIHOOD STRATEGIES AROUND VIRUNGA-BWINDI LANDSCAPE | AUGUST 2022-NOVEMBER 2022

Consulting project for the International Gorilla Conservation Programme to investigate the effectiveness of different livelihood strategies in reducing conservation threats to the mountain gorillas in Rwanda, Uganda, and the Democratic Republic of Congo. Role: Lead Consultant

EQUITABLE INVESTMENTS IN RESILIENCE | AUGUST 2021-JULY 2022

Consulting project for the Miami Foundation to assess and propose approaches for an alternative valuation methodology for equity and environmental outcomes for benefit-cost analyses (BCA) of public capital infrastructure improvements and private development projects. Role: Consultant

EVERGLADES RESTORATION, WATER QUALITY, AND RESIDENTIAL REAL ESTATE | JULY 2021-FEBRUARY 2022

Consulting project for the Everglades Foundation to build a hedonic residential real estate model to estimate the impact of water quality changes resulting from Lake Okeechobee discharges to the St. Lucie and Caloosahatchee rivers on the value of residential real estate. Role: Lead Consultant

Publications

* Indicates graduate student advisee

Vorseth, C. C., Bhat, M. G., & Stainback, G. A. (2026). Tight lines: Algal bloom, anglers perception, and economic impact of recreational fishing – The case of lake Okeechobee, Florida. *Tourism Economics*, 32(1), 28–48

KC, B., Adhikari, H., & Stainback, G. A. (2024). Tourism and national collaboration in protected areas. *Annals of Tourism Research Empirical Insights*, 5(2), 100151.

Wiederholt, R., Stainback, G. A., Paudel, R., Khare, Y., Naja, M., Davis, S. E., & Van Lent, T. 2020. Economic Valuation of the Ecological Response to Hydrologic Restoration in the Greater Everglades Ecosystem. *Ecological Indicators*, 117, 106678.

- Stainback, G. A., Lai, J. H., Pienaar, E. F., Adams, D. C., Wiederholt, R., & Vorseth, C. 2020. Public Preferences for Ecological Indicators Used in Everglades Restoration. *PLoS One*, 15(6), e0234051.
- Li, X., & Stainback, G. A. 2020. On-Site Experience Effect on Stakeholders' Preferences of Forest Management. *Sustainability*, 12(19), 7845.
- Khare, Y., Naja, M. G., Stainback, A. G., Martinez, J. C., Paudel, R., & Van Lent, T. 2019. A Phased Assessment of Restoration Alternatives to Achieve Phosphorus Water Quality Targets for Lake Okeechobee, Florida, USA. *Water*. 11(2), 327.
- Stainback, G. A., Fedler, T., Davis, S.E. and K.C. Birendra. 2018. Recreational Fishing in Florida Bay: Economic Significance and Angler Perspectives. *Tourism in Marine Environments*. 14(1-2), 89-105.
- Li, X., Stainback, A., Barton, C., & Yang, J. 2018. Valuing the Environmental Benefits from Reforestation on Reclaimed Surface Mines in Appalachia. *Journal American Society of Mining and Reclamation*, 7(1), 1–29.
- KC, B., Morais, D. B., Stainback, G. A., & Thigpen, J. 2018. The Use of Social Media and Peer Networking in Tourism Microentrepreneurship. *Sustainable Communities Review*, 11(1), 57–69.
- Mercer, D. Evan, Li, Xiaoshu, Stainback, Andrew, Alavalapati, Janaki. 2017. Valuation of agroforestry services. In: M. Schoeneberger et. al (eds.), *Agroforestry: Enhancing resiliency in U.S. agricultural landscapes under changing conditions*. (pp. 63-72). U.S. Department of Agriculture, Forest Service.
- Nepal*, S., Contreras, M., Stainback, G., & Lhotka, J. 2015. Quantifying the Effects of Biomass Market Conditions and Policy Incentives on Economically Feasible Sites to Establish Dedicated Energy Crops. *Forests*, 6(11), 4168-4190.
- Shrestha*, P., Stainback, G., & Dwivedi, P. 2015. Economic Impact of Net Carbon Payments and Bioenergy Production in Fertilized and Non-Fertilized Loblolly Pine Plantations. *Forests*, 6(9), 3045-3059.
- KC*, B., Stainback, G. A., & Rayens, K. 2015. Comparison of Three Major Forest Types of Mid Hills Region of Nepal for Conservation and Local Benefits. *Small-scale Forestry*, 1-13.
- Shrestha*, P., Stainback, G. A., Dwivedi, P., & Lhotka, J. M. 2015. Economic and life-cycle analysis of forest carbon sequestration and wood-based bioenergy offsets in the central hardwood forest region of United States. *Journal of Sustainable Forestry*, 34(3), 214-232.
- Nepal*, S., Contreras, M. A., Lhotka, J. M., & Stainback, G. A. 2014. A spatially explicit model to identify suitable sites to establish dedicated woody energy crops. *Biomass and Bioenergy*, 71(0), 245-255.
- KC*, B., Stainback, G. A. & Chhetri, B. B. K. 2014. Community users' and experts' perspective on community forestry in Nepal: a SWOT–AHP analysis. *Forests, Trees and Livelihoods*, 23(4), 1-15.

- Catron*, J. F., Stainback, G. A. Lhotka, J. M., Stringer, J., & Hu, L. 2013. Financial and management implications of producing bioenergy in upland oak stands in Kentucky. *Northern Journal of Applied Forestry*, 30(4), 164-169.
- K.C*, B., & Stainback, G. A. 2013. Financial analysis of chir pine plantations for carbon offsets, timber and resin in Nepal. *Banko Janakari*, 22(2), 3-10.
- Leitch, Z. J., Lhotka, J. M., Stainback, G. A. & Stringer, J. W. 2013. Private landowner intent to supply woody feedstock for bioenergy production. *Biomass and Bioenergy*, 56(0), 127-136.
- Catron*, J., Stainback, G. A., Dwivedi, P. & Lhotka, J. M. 2013. Bioenergy development in Kentucky: A SWOT-ANP analysis. *Forest Policy and Economics*, 28(0), 38-43.
- Dwivedi, P., Bailis, R., Stainback, A. & Carter, D. R. 2012. Impact of payments for carbon sequestered in wood products and avoided carbon emissions on the profitability of NIPF landowners in the US South. *Ecological Economics*, 78(0), 63-69.
- Stainback, G., Masozera, M., Mukuralinda, A. & Dwivedi, P. 2012. Smallholder agroforestry in Rwanda: A SWOT-AHP analysis. *Small-scale Forestry*, 11(3): 285-300.
- Stainback, G. A. & Masozera, M. 2010. Payment for ecosystem services and poverty reduction in Rwanda. *Journal of Sustainable Development in Africa*, 12(3), 122-139.
- Dwivedi, P., Alavalapati, J. R. R., Susaeta, A. & Stainback, A. 2009. Impact of carbon value on the profitability of slash pine plantations in the southern United States: an integrated life cycle and Faustmann analysis. *Canadian Journal of Forest Research*, 39(5), 990-1000.
- Matta, J. R., Alavalapati, J. R. R. & Stainback, G. A. 2009. Effect of conserving habitat for biodiversity on optimal management of non-industrial private forests in Florida. *Journal of Forest Economics*, 15(4), 223-235.
- Alavalapati, J. R. R., Jose, S. Stainback, G. A., Matta, J. R., & Carter, D. 2007. Economics of cogongrass control in slash pine forests. *Journal of Agricultural and Applied Economics*, 39, 61-68.
- Alavalapati, J. R. R., Stainback, G. A. & Matta, J. R. 2006. Longleaf pine restoration. In S. Jose, E. J. Jokela & D. L. Miller (Eds.), *The Longleaf Pine Ecosystem*. (pp. 403-412). Springer Series on Environmental Management.
- Stainback, G. A. & Alavalapati, Janaki R. R. 2005. Effects of carbon markets on the optimal management of slash pine (*Pinus elliottii*) plantations. *Southern Journal of Applied Forestry*, 29(1), 27-32.
- Stainback, G. A. & Alavalapati, J. R. R. 2004. Restoring longleaf pine through silvopasture practices: an economic analysis. *Forest Policy and Economics*, 6(3-4), 371-378.
- Stainback, G. A. & Alavalapati, J. R. R. 2004. Modeling catastrophic risk in economic analysis of forest carbon sequestration. *Natural Resource Modeling*, 17(3), 299-317.
- Stainback, G. A. Alavalapati, J. R. R., Shrestha, R. K., Larkin, S. L. & Wong, G. 2004. Improving

environmental quality in south Florida through silvopasture: An economic approach. *Journal of Agricultural and Applied Economics*, 36(2), 481-489.

Alavalapati, J. R. R., Shrestha, R. K., Stainback, G. A., & Matta, J. R. 2004. Agroforestry development: An environmental economic perspective. *Agroforestry Systems*, 61-62(1), 299-310.

Stainback, G. A. & Alavalapati, J. R. R. 2002. Economic analysis of slash pine forest carbon sequestration in the southern U. S. *Journal of Forest Economics*, 8(2), 105-117.

Alavalapati, J. R. R., Stainback, G. A. & Carter, D. R. 2002. Restoration of the longleaf pine ecosystem on private lands in the US South: an ecological economic analysis. *Ecological Economics*, 40(3), 411-419.

Presentations and Posters

#Indicates presenter, *Indicates graduate student advisee

Stainback#, G. A., Lai, J., Pienaar, E. Vorseth*, C. Adams, D., Bhat, M. Valuing Ecological Outcomes for Everglades Restoration Decision-Making. Greater Everglades Ecosystem Restoration, Coral Springs, FL. April 22-25, 2019.

Stainback#, G. A., Lai, J., Pienaar, E. Vorseth*, C. Adams, D., Bhat, M. Ecosystem Service Valuation and the Benefits of Everglades Restoration. A Community on Ecosystem Services, Washington, D.C. December 3-6, 2018.

Stainback#, G. A. The Economic Significance of Florida Bay. Greater Everglades Ecosystem Restoration, Coral Springs, FL. April 17-20, 2017.

Rayens*#, K., Stainback, F.A. & Masozera, M. Stakeholder evaluation of the potential of market-based instruments (MBIs) for conservation in Rwanda. Western Forest Economist & International Society of Forest Resource Economics Meeting, Vancouver, BC. May 31-June 2, 2015.

Hu*#, L., Stainback, G.A. & Dillion, C. Economic analysis of carbon sequestration and bioenergy production under catastrophic risk and price uncertainty. Southern Agricultural Economics Association, Dallas, TX. February 1-4, 2014.

Shrestha*#, P., Stainback, G. A., Lhotka, J.M. & Hu, L. Economic and life-cycle analysis of forest carbon sequestration and bioenergy production in the central hardwood region. Southern Forest Economics Workshop, Auburn, AL. March 10-12, 2013.

Shrestha*#, P., Stainback, G. A., Lhotka, J.M., Dwivedi, P. & Hu, L. Carbon life-cycle and economic analysis of forests carbon sequestration and woody bioenergy production from loblolly pine forests in southern U.S. Southern Forest Economics Workshop, Auburn, AL. March 10-12, 2013.

K.C. Birendra*#, G.A. Stainback, & P. Shrestha*. Using expert and user knowledge to analyze the relative importance of issues confronting community forests in the mid hills region of Nepal. Southern Forest Economics Workshop, March 20-21, 2012, Charlotte, N.C.

Stainback, G.A.# Payment for ecosystem services (carbon payments). Forest Carbon Stock Assessment for Carbon Trading Workshop. August 15, 2011, Gitabi, Rwanda.

Stainback, G.A.[#] Kentucky woodlands tax assessment project. Kentucky Department of Revenue. May 24, 2011, Frankfort, KY.

Stainback, G.A.[#] Kentucky woodlands tax assessment project. Kentucky Chapter of the Association of Consulting Foresters Meeting. April 28, 2011, Lexington, KY.

Stainback, G.A.[#] & M. Masozera. Payment for ecosystem services and poverty reduction in Rwanda. Society for Conservation Biology 24th Annual Meeting. July 3-7, 2010, Edmonton, Canada.

Stainback, G.A.[#] Kentucky woodlands property tax assessment. KWOA Annual Meeting. April 16-17, 2010, Barren River State Park, KY.

Stainback, G.A.[#] Potential of stacking other ecosystem services with carbon offsets in longleaf pine. Carbon Sequestration in the Longleaf Pine Ecosystem: Current Status of Knowledge and Information Needs. February 16-17, 2010, Auburn, AL.

Stainback, G.A.[#] Rwanda: history and current challenges. Third World Perspective Program Seminar. January 24, 2007, Americus, GA.

Stainback, G.A.[#] Third world development: successes and failures. Third World Perspective Program Seminar. October 11, 2006, Americus, GA.

Stainback, G.A.[#] & J.R.R. Alavalapati. Reducing phosphorus runoff through silvopasture: an ecological economics approach. Southern Forest Economics Workshop. March 17-18, 2003, New Orleans, LA.

Stainback, G.A.[#] & J.R.R. Alavalapati. Carbon sequestration and the optimal management of slash pine forests. USDA Symposium on Natural Resource Management to Offset Greenhouse Gas Emissions. Raleigh, NC. November 19-21, 2002.

Stainback, G.A.[#] & J.R.R. Alavalapati. Fire risk and the economics of sequestering carbon in forests. Annual Meeting of the American Agricultural Economics Association. July 28-31, 2002. Long Beach, CA.

Stainback, G.A.[#] & J.R.R. Alavalapati. Economic analysis of restoring longleaf pine on private lands in the U.S. south: implications for public policy. Global Initiatives and Public Policies: First International Conference on Private Forestry in the 21st Century. March 25-27, 2001, Atlanta, GA.

Stainback, G.A.[#] & J.R.R. Alavalapati. Ecological-economic analysis of land values in the Mississippi Delta when environmental benefits are considered. Southern Forest Economics Workshop. March 26-27, 2000, Lexington, KY.

Stainback, G.A. & J.R.R.[#] Alavalapati. Value of carbon sequestration: implications for slash pine forest management in Florida. Southern Forest Economics Workshop. April 18-20, 1999, Biloxi, MS.

Graduate Student Advisees

Jonathan Catron (M.S.), Thesis: Economic and Policy Implication of Forest-Based Bioenergy Production in Kentucky. Date Completed: 2012

Birendra K.C. (M.S.), Thesis: Socio-Economic Study of Community Forests in Mid Hills Region of Nepal. Date Completed: 2012

Prativa Shrestha (M.S.), Thesis: Carbon Life-Cycle and Economic Analysis of Forest Carbon Sequestration and Woody Bioenergy. Date Completed: 2013

Sandhya Nepal (M.S. co-advised) Modeling Site Suitability for Establishing Dedicated Energy Crops in Northern Kentucky. Date Completed: 2014

Lijiao Hu (M.S.) Economic Analysis of Carbon Sequestration Under Catastrophic Risk and Price Uncertainty in Kentucky. Date Completed: 2014

Kel Rayens (M.S.) The Use of Improved Technology and Market-Based Incentives to Increase Forest Resource and Biodiversity Conservation in Rwanda. Date Completed: 2015

Chloe' Vorseth (M.S. co-advised) Utilizing Multi-Criteria Analysis and Analytical Hierarchy Process to Facilitate Everglades Restoration Decision-Making. Date Completed: 2019

Chloe' Vorseth (Ph.D. co-advising) Public and Stakeholder Willingness-to-Pay for Lake Okeechobee Management Alternatives. Date Completed: 2024

University Service

Undergraduate Curriculum Committee. August 2024-Present. Departmental committee of faculty tasked with course and curriculum changes in undergraduate degree programs administered by the Department of Environmental Science. (Baylor University)

Environmental Humanities Core Leadership Team. August 2024-Present. College-wide committee tasked with curriculum development for the Minor in Environmental Humanities. (Baylor University)

Faculty Advisor for Students for Environmental and Wildlife Protection (SEWP). Spring 2024-Present. Faculty advisor for the university-wide student group that works to promote environmental conservation and awareness. (Baylor University)

Natural Resource and Environmental Science Steering Committee. July 2011-December 2015. College of Agriculture committee tasked with curriculum development for the B.S. in Natural Resources and Environmental Science. (University of Kentucky)

Graduate Curriculum Committee. August 2009-August 2011, August 2013-August 2014. Departmental committee of faculty tasked with course and curriculum changes at the graduate level and graduate student financial support. (University of Kentucky)

Forestry Research Committee. December 2010-December 2015. Departmental committee tasked with addressing the needs of research in the department. (University of Kentucky)

College of Agriculture International Working Group. November 2011-December 2015. College-wide committee tasked with developing international programs. (University of Kentucky)

Sustainability Ambassador Program. January 2012-December 2015. University-wide committee of students, faculty and staff tasked with improving the environmental sustainability of the campus. (University of Kentucky)

Faculty Search Committee. December 2010-April 2011 Departmental committee of faculty tasked with soliciting and reviewing applications for an open faculty position in the Department. (University of Kentucky)

Recruitment Committee. May 2010. College of Agriculture committee tasked with outlining college wide policies to boost undergraduate student recruitment in the College. (University of Kentucky)

Precision Resource Management Committee. January 2010 – April 2010. College of Agriculture Committee tasked with reviewing research proposals for funding by the USDA. (University of Kentucky)

Faculty leader to develop a new master's degree. March 2008--May 2009. Responsibilities included developing a curriculum and internship proposal for a new Professional Science Master's (PSM) degree in environmental management and sustainability. (SUNY-Plattsburgh)

Campus sustainability committee. August 2008--May 2009. University wide committee composed of administrators, faculty and students tasked with finding ways to make the campus more environmentally sustainable. (SUNY-Plattsburgh)

Curriculum committee. August 2007--May 2009. Departmental committee of faculty tasked with reviewing course and curriculum changes and making recommendations to the department. (SUNY-Plattsburgh)

Faculty search committee. October 2007--March 2008. Departmental committee of faculty tasked with soliciting and reviewing applications for an open faculty position in the department. (SUNY-Plattsburgh)