

## Jianbang Gan

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### I. Education

Ph.D., Forestry (Economics), Iowa State University  
M.S., Forestry (Economics and Marketing), Iowa State University  
B.S., Forest Engineering, Fujian Agriculture and Forestry University (formerly Fujian Forestry College), China

### II. Professional Experience

2008-present Professor, Department of Ecology and Conservation Biology, Texas A&M University  
2016-present Faculty Affiliate, Texas A&M Energy Institute  
2018 (spring) Visiting Scientist, Scion, New Zealand  
2011-2012 Visiting Fellow, School of Forestry and Environmental Studies, Yale University  
2008-2011 Associate Department Head for Graduate Programs (2009-2011) and for Undergraduate Programs (2008-2009), Department of Ecosystem Science and Management, Texas A&M University  
2001-2008 Associate Professor (tenured in 2006), Department of Ecosystem Science and Management, jointly appointed in Agricultural Economics, Texas A&M University  
1992-2001 Faculty (Assistant Professor, 1992-97; Associate Professor, 1997-99; Professor 1999-2001), jointly appointed in Forest Resources and Agricultural Economics Programs, Tuskegee University  
1998-2001 Coordinator for Forest Resources Program, Tuskegee University  
1992-2001 Coordinator for International Project Development, Tuskegee University  
1991-1992 Postdoctoral Research Associate, Iowa State University  
1986-1990 Graduate Research Assistant, Iowa State University  
1982-1986 Assistant Lecturer, Fujian Agriculture and Forestry University, China

### III. Awards, Honors, and Special Recognitions and Services

Partnership Award for Mission Integration of Research, Education, and Extension, U.S. Department of Agriculture (USDA) National Institute of Food and Agriculture (NIFA), 2016 (shared with members of the PINEMAP project executive committee)  
Lead Author of a global scientific assessment on illegal logging and related timber trade, 2016 (At invitation of the Collaborative Partnership on Forests consisting of 14 international organizations and secretariats including the UNEP, UNDP, FAO, World Bank, etc.)  
Awardee of the Program for the Enhancement of Scholarly and Creative Activities, Texas A&M University, 2011

Research, Development and Innovation Award, Texas Forestry Association, 2010  
Nominee for the Eni Award (for Non-conventional and Renewable Energy) by the Eni Award Secretariat, Italy, 2009  
Grant Review Panelist for U.S. National Science Foundation (NSF), U.S. National Academy of Sciences, USDA, Ford Foundation, and Swedish Research Council  
Associate Editor: *Canadian Journal of Forest Research*, 2007-2016; *Southern Journal of Applied Forestry*, 2008-2010; *Forest Science*, 2005 (Guest Associate Editor)  
Guest Editor: *Climate*, 2021; *Forests*, 2015  
Editorial Board member: *International Journal of Forestry Research*, 2008-; *Canadian Journal of Forest Research*, 2007-2016  
Certificate of Appreciation from the President of Tuskegee University, 2001  
Faculty Outstanding Performance Award in Teaching for 1996-97, Tuskegee University  
Certification of Appreciation for Teaching and Advising, Agricultural Sciences Students Organization, Tuskegee University, 1996  
Phi Kappa Phi Honor Society, 1988; Gamma Sigma Delta Agricultural Honor Society, 1987; Xi Sigma Pi Forestry Honor Society, 1987

#### **IV. Research**

##### **A. Research Interest**

Forest resource economics, management, and policy with current work focused on bioeconomy and sustainability, disturbances (climate change, wildfire, pest infestations, and invasive species) and response, and trade and conservation.

##### **B. Grants and Contracts**

REU supplement to Collaborative research: Fuel treatment planning optimization for wildfire management, National Science Foundation (NSF), \$7,500, 2021-23 (with L. Ntamo) (Co-PI)  
Collaborative research: Fuel treatment planning optimization for wildfire management, NSF, \$550,000, 2020-23 (with O. Prokopyev and L. Ntamo) (Co-PI)  
Disturbances, changing markets, and competitiveness of forestry in the southern United States, USDA McIntire-Stennis Program, approximately \$250,000, 2018-23 (PI)  
Sustainability of forest bioenergy development in the southern United States, USDA McIntire-Stennis Program, approximately \$150,000, 2013-18 (PI)  
US-India consortium for development of sustainable advanced lignocellulosic biofuel systems, US Department of Energy (USDOE), \$6.25 million, 2012-17 (with P. Pullammanappallil et al.) (Co-PI)  
Assessing socioeconomic impacts of forest biomass based biofuel development on rural communities in the southern United States, USDA NIFA, \$350,000, 2012-16 (with P. Lal) (Co-PI)  
Integrating research, education and extension for enhancing southern pine climate change mitigation and adaptation, USDA NIFA, \$20 million, 2011-17 (with T. Martin et al.) (Project Executive Committee, Economics and Policy Aim Co-leader, Co-PI)

- Designing institutional mechanisms for enhancing the efficacy of reduced emissions from deforestation and forest degradation (REDD), Program for the Enhancement of Scholarly and Creative Activities, \$10,000, 2011-12 (PI).
- A graduate program in forest resources: Developing integrated expertise in forest resource management, conservation, and restoration, USDA Food and Agricultural Sciences National Needs Graduate and Postgraduate Fellowship Grants Program, \$234,000, 2009-14 (with K. Krutovsky et al.) (Co-PI)
- Economic and policy analysis of forest biomass for energy production, USDA McIntire-Stennis Program, approximately \$150,000, 2008-13 (PI)
- Location and biomass feedstock production: An economic and environmental analysis, Texas AgriLife Research, \$100,000, 2008-09 (with B.A. McCarl, T. Gerik, and J. Mullet) (Co-PI)
- Potential of East Texas woody biomass residues as a feedstock for Carbonator™ technology, Texas AgriLife Research, \$92,500, 2008-09 (with G. Smith, E. Taylor, D. Foster, and C. Long) (Co-PI)
- Bioenergy development, climate change mitigation, and energy security, a research roundtable at the Third China-US Relations Conference, George Bush Presidential Library Foundation, \$10,000, 2007 (with B.A. McCarl) (PI)
- Cost-benefit analysis of severe invasive plants in southern forests, USDA Forest Service, \$60,000, 2006-09 (with J.H. Miller) (PI)
- Southern critical forestlands assessment, Southern Group of State Foresters, \$97,927, 2006-07 (with R. Srinivasan, J. Jacobs, and M. Messina) (Co-PI)
- Landowner response to state-sponsored wildfire mitigation policy in the southern Black Belt, Joint Fire Science Program, \$122,563, 2005-09 (with C.Y. Johnson) (Co-PI)
- Wetland conservation, nature-based tourism, and rural economic development, a research roundtable at the Second Conference of China-US Relations: Trade, Diplomacy, and Research, George Bush Presidential Library Foundation, \$5,000, 2005 (with A. Skadberg and R. Giardino) (PI)
- Sustainable forestry for bioenergy and bio-based products, Biomass Research and Development Initiative, \$1,000,000, 2004-07 (with L. Biles, C.T. Smith, C.D. Foster, B.D. Jackson, H.M. Rauscher, and W.G. Hubbard) (Co-PI)
- Effects of climate change, forest certification, biotechnology, and industrial concentration on the US forest products industry and trade, USDA National Research Initiative Competitive Grants Program (NRICGP), \$175,000, 2003-07 (with B.A. McCarl and J.W. Mjelde) (PI)
- Opportunities and challenges in doing business and trade between China and the US, a research roundtable session at the First Conference of China-US Relations: Past, Present, and Future, George Bush Presidential Library Foundation, \$2,500, 2003 (with G. Tian et al.) (Co-PI)
- Effects of tariff reductions and non-tariff barriers on US forest products industries, USDA McIntire-Stennis Program, approximately \$120,000, 2002-08 (PI)
- Improving income of socially disadvantaged forestland owners in the South through technical assistance, USDA Fund for Rural America, \$150,000, 1998-2002 (with S.H. Kolison, Jr.) (PI)

Impact assessment of free trade policies on the US forestry sector and southern timber-dependent rural communities, USDA CSREES Higher Education Program, \$269,962, 1997-2001 (with S.H. Kolison, Jr.) (PI)

Evaluation of program participation behavior of limited-resource forest landowners in Alabama, USDA Forest Service Southern Research Station, \$24,000, 1999-2001 (PI)

Sustainable economic growth and environmental protection in Alabama with a focus on Black Belt counties, USDA CSREES Higher Education Program, \$194,288, 1998-2001 (with R. Ankumah) (Collaborator)

Assessment of economic efficiency and environmental impacts of major timber harvest systems in Alabama, USDA Forest Service Southern Research Station, \$30,000, 1997-99 (with S.H. Kolison, Jr.) (Co-PI)

Agriculture-based natural resource research in Senegal, US Agency for International Development (USAID) via Oregon State University, \$75,479, 1997-98 (with S.L. Louis) (PI)

Assessment of Chinese markets for US forest product exports. USDA Scientific Cooperation Program, approximately \$10,000, 1997 (with D. Zhang) (Co-PI)

Restructuring faculty reward systems in the Southern Food System Education Consortium (SOFSEC) institutions, The Kellogg Foundation, \$90,000, 1996-2000 (with S.H. Kolison, Jr.) (Co-PI)

Increasing the participation of minority forestland owners in forestry assistance programs for a sustainable forest management in Alabama, Alabama Forestry Commission, \$25,000, 1996-99 (with S.H. Kolison, Jr.) (Collaborator)

Socioeconomic impacts of reduced public timber harvest on local communities: A case study in Alabama and a decision-making model for national forests, USDA Forest Service Southern Research Station, \$25,950, 1996-99 (with S.H. Kolison, Jr.) (Co-PI)

Improving income generation for pastoral women in Mali, USAID, \$100,000, 1995-98 (with S. Solaiman, G. Howze, and S.L. Louis) (Co-PI)

Alabama environmental outreach and education, Environmental Protection Agency, \$150,000, 1995-97 (with R. Ankumah, P. Lorentan, and M. Ngandu) (Co-PI)

Technical assistance to socially disadvantaged forestland owners in selected counties in southeastern Alabama, USDA Farmers Home Administration, \$42,000, 1995 (with S.H. Kolison, Jr.) (PI)

Ecological-economic assessment of forest ecosystem management regimes in the Tuskegee National Forest and selected private forestlands, USDA Forest Service Southern Research Station, \$93,000, 1994-2000 (with S.H. Kolison, Jr.) (PI)

The effects of gypsy moth defoliation and mortality on the change in timber values of mixed oak forest stands, USDA Forest Service, \$40,557, 1994-97 (with S.H. Kolison, Jr.) (Collaborator)

Developing a short-term course in sustainable natural resource management and environmental sciences, USAID, \$82,000, 1994 (with S.L. Louis) (Project Coordinator)

Economic impacts of the red-cockaded woodpecker interim guidelines: A case study in Alabama, USDA Forest Service Southern Research Station, \$19,000, 1993-95 (with S.H. Kolison, Jr.) (Collaborator)

Developing a short-term course in sustainable agriculture, USAID, \$68,804, 1993 (with S.L. Louis) ((Project Coordinator)

Developing a short-term course in livestock production and extension for Thomas Jefferson Fellows, USAID, \$24,000, 1993 (with S.L. Louis) (Project Coordinator)

Sustainable agriculture and natural resource management (SANREM CRSP) in the Philippines, Burkina Faso, and Honduras, USAID via the University of Georgia, \$396,629 (over \$10 million of total project funding), 1992-97 (with S.L. Louis, M. Ngandu, and E. Rhoden) (Project Coordinator)

### **C. International Research Experience**

Sustainable biomass and bioenergy production and governance, International Energy Agency (IEA) Bioenergy, 2003-

Natural resource economics and policy, Scion, New Zealand, 2018

Illegal logging and related timber trade, Global Forest Expert Panels, Collaborative Partnership on Forests, 2016

Development of sustainability principles, criteria, and indicators, United Nations Food and Agriculture Organization (FAO), 2009-10

Economic analysis of biodiesel development, Guatemala, 2007 (Funded by Borlaug Institute)

Natural resource management and rural development, Senegal, 1998 (Funded by USAID)

Forest Product Trade, China, 1997 (Funded by USDA Foreign Agricultural Service)

Community-based natural resource management, Tanzania, 1996 (Funded by USAID)

Natural resource management for enhancing income generation for pastoral women, Mali, 1995-98 (Funded by USAID)

Sustainable agriculture and natural resource management, Philippines, 1994 (Funded by USAID)

### **D. Publications**

#### **Refereed Journal Articles**

Ma, Z., Y. Yang, W.-Q. Chen, P. Wang, C. Wang, C. Zhang, and J. Gan. 2021. Material flow patterns of global waste paper trade and potential impacts of China's import ban. *Environmental Science and Technology*. <https://doi.org/10.1021/acs.est.1c00642>.

Park, J.H., J. Gan, and C. Park. 2021. Discrepancies between global forest net primary productivity estimates derived from MODIS and forest inventory data and underlying factors. *Remote Sensing* 13:1441. <https://doi.org/10.3390/rs13081441>.

Yin, Z., F. Wang, and J. Gan. 2020. Spatial spillover effects of global forest product trade. *Forest Policy and Economics* 113:200.

Yang, L., Z. Yin, J. Gan, F. Wang. 2020. Asymmetric price transmission of hardwood lumber imported by China after imposition of the Comprehensive Commercial

- Logging Ban in all natural forests. *Forests* 11(2):200.  
<https://doi.org/10.3390/f11020200>.
- Chen, C., J. Gan, Z.X. Zhang, and R.Z. Qiu. 2020. Multi-objective and multi-period optimization of regional timber supply network with uncertainty. *Canadian Journal of Forest Research* 50(2):203-214.
- Gan, J., I. Stupak, and C.T. Smith. 2019. Integrating policy, market, and technology for sustainability governance of agriculture-based biofuel and bioeconomic development in the U.S. *Energy, Sustainability and Society* 9(1):43.  
<https://doi.org/10.1186/s13705-019-0223-2>.
- Lewison, R., A. Johnson, J. Gan, R. Pelc, K. Westfall, and M. Halvey. 2019. Accounting for unintended consequences of resource policy: Connecting research that addresses displacement of environmental impacts. *Conservation Letters* e12628. <https://doi.org/10.1111/conl.12628>.
- Park, J.H., D.K. Lee, J. Gan, C. Park, S.Y. Kim, S.Y. Sung, and T.Y. Jung. 2018. Effects of climate change and ozone concentration on the net primary productivity of forests in South Korea. *Forests* 9(3):112-129.
- Wolde, B., P. Lal, P. Burli, J. Munsell, J. Gan, and E. Taylor. 2018. Adapting Extension and outreach content to the educational interests of forestland owners. *Journal of Extension* 56(3), 3FEA4.
- Wu, Z., C. Zhou, X. Zhou, X. Hu, and J. Gan. 2018. Long-term impacts of different selective cutting intensities on community diversity and stability of secondary forests in southeastern China. *Forests* 9(1):40-55.
- Wang, F., Z. Yin, and J. Gan. 2017. Exchange rate fluctuation and pricing behavior in China's wood-based panel exporters: Evidence from panel data. *Canadian Journal of Forest Research* 47(10):1392-1404.
- Chen, C., X. Hu, J. Gan, and R. Qiu. 2017. Regional low-carbon timber logistics network design and management using multi-objective optimization. *Journal of Forest Research* 22(6): 354-362.
- Stroman, D.A., U.P. Kreuter, and J. Gan. 2017. Balancing property rights and social responsibilities: Perspectives of conservation easement landowners. *Rangeland Ecology and Management* 70(3):255-263.
- Clifton, K., J. Gan, and H. Gil. 2017. User's perception on conservation on communal lands in Cumbres de Monterrey National Park, Mexico. *Range Management and Agroforestry* 37(2):133-141.
- Golecha, R., and J. Gan. 2016. Cellulosic biorefinery portfolio and diversification: Strategies to mitigate cellulosic biorefinery risks. *Energy Strategy Reviews* 13/14:147-153.
- Monge, J., H. Bryant, J. Gan, and J. Richardson. 2016. Land use and general equilibrium implications of a forest-based carbon sequestration policy in the United States. *Ecological Economics* 127:102-120.
- Wolde, B., P. Lal, J. Gan, and J. Alavalapati. 2016. Determinants of enrollment in public incentive programs for forest management and their effect on future programs for woody bioenergy: Evidence from Virginia and Texas. *Canadian Journal of Forest Research* 46:775-782.

- Golecha, R., and J. Gan. 2016. Optimal contracting structure between cellulosic biorefineries and farmers to reduce the impact of biomass supply variation: Game theoretic analysis. *Biofuels, Bioproducts and Biorefining* 10:129-138.
- Golecha, R., and J. Gan. 2016. Effects of corn stover year-to-year supply variability and market structure on biomass utilization and cost. *Renewable and Sustainable Energy Reviews* 57:34-44.
- Golecha, R., and J. Gan. 2016. Biomass transport cost from field to conversion facility when biomass yield density and road network vary with transport radius. *Applied Energy* 164:321-331.
- Kebede, E., J. Gan, and J.M. Kagochi. 2016. Agriculture based energy for rural household income and wellbeing: East African experience. *Renewable and Sustainable Energy Reviews* 53:1650-1655.
- An, H., J. Gan, and S. Cho. 2015. Assessing climate change impacts on wildfire risk in the United States. *Forests* 6:3197-3211.
- Gan, J., A. Jarrett, and C. Johnson Gaither. 2015. Landowner response to wildfire risk: Adaptation, mitigation or doing nothing. *Journal of Environmental Management* 159:186-191.
- Kabli, M., J. Gan, and L. Ntaimo. 2015. A stochastic programming model for fuel treatment management. *Forests* 6:2148-2162.
- Su, S.P., J.Y. Wu, and J. Gan. 2015. Comparative analysis of total factor productivity change among family forestry operators since the forest tenure reform in Fujian, Zhejiang and Jiangxi provinces. *Resource Science* 37(1):112-124 (in Chinese with English abstract).
- Zhou, X., Y. Zhou, C. Zhou, Z. Wu, L. Zheng, X. Hu, H. Chen, and J. Gan. 2015. Effects of cutting intensity on soil Physical and chemical properties in a mixed natural forest in southeastern China. *Forests* 6:4495-4509.
- Gan, J., A. Jarrett, and C. Johnson Gaither. 2014. Wildfire risk adaptation: Propensity of forestland owners to purchase wildfire insurance in the southern United States. *Canadian Journal of Forest Research* 44:1376-1382.
- Gan, J., J.W.A. Langeveld, and C.T. Smith. 2014. An agent-based modeling approach for determining corn stover removal rate and transboundary effects. *Environmental Management* 53:333-342.
- Gan, J. 2013. Economic and environmental competitiveness of US-made forest products: Implications for offshore outsourcing. *Journal of Forestry* 111(2):94-100.
- Gan, J., and B. Cashore. 2013. Opportunities and challenges for integrating bioenergy into sustainable forest management certification programs. *Journal of Forestry* 111(1):11-16.
- Gan, J., B. Cashore, and M. Stone. 2013. Impacts of Lacey Act Amendment and Voluntary Agreement Partnerships on illegal logging: Implications for forestry governance. *Journal of Natural Resource Policy Research* 5(4):209-226.
- Gan, J., A. Jarrett, and C. Johnson. 2013. Forest fuel reduction and biomass supply: Perspectives from southern private landowners. *Journal of Sustainable Forestry* 32:28-40.

- Ntaimo, L., J. Arrubla, J. Gan, T. Spencer, C. Stripling, and J. Young. 2013. A simulation and stochastic integer programming approach to wildfire initial attack planning. *Forest Science* 59(1):105-117.
- Gan, J., and C.T. Smith. 2012. Biomass utilization allocation in biofuel production: Model and application. *International Journal of Forest Engineering* 23:38-47.
- Gan, J., C.T. Smith, and J.W.A. Langeveld. 2012. Effects of considering greenhouse gas consequences on fertilizer use in loblolly pine plantations. *Journal of Environmental Management* 113:383-389.
- Poudyal, N.C., C. Johnson Gaither, S. Goodrick, J.M. Bowker, and J. Gan. 2012. Locating spatial variation in the association between wildland fire risk and social vulnerability across six southern states. *Environmental Management* 49:623-635.
- Salam, M.A., S.M.M. Islam, J. Gan, and L.G. Ross. 2012. Crab culture potential in southwestern Bangladesh: Alternative to shrimp culture for climate change adaption. *International Research Journal of Applied Life Sciences* 1(4):15-31.
- Wang, H., W.E. Grant, J. Gan, W.E. Rogers, T.M. Swannack, T.E. Koralewski, J.H. Miller, and J.W. Taylor, Jr. 2012. Integrating spread dynamics and economics to manage Chinese tallow (*Triadica sebifera* (L.) Small) invasions in southern U.S. forestlands. *PLoS ONE* 7(3):e33877. doi:10.1371/journal.pone.0033877.
- Gan, J., and C.T. Smith. 2011. Drivers for renewable energy: A comparison of OECD countries. *Biomass and Bioenergy* 35:4497-4503.
- Gan, J., and C.T. Smith. 2011. Optimal plant size and feedstock supply radius: A modeling approach to minimize bioenergy production costs. *Biomass and Bioenergy* 35:3350-3359.
- Gaither, C.J., N. Poudyal, S. Goodrick, J.M. Bowker S. Malone, and J. Gan. 2011. Wildland fire risk and social vulnerability in the southeastern United States: An exploratory spatial data analysis approach. *Forest Policy and Economics* 13(1):24-36.
- Wang, H, W.E. Grant, T.M. Swannack, J. Gan, W.E. Rogers, T.E. Koralewski, J.H. Miller, and J.W. Taylor, Jr. 2011. Predicted range expansion of Chinese tallow tree (*Triadica sebifera*) in forestlands of the southern United States. *Diversity and Distributions* 17:552–565.
- Gan, J., and C.T. Smith. 2010. Integrating biomass and carbon values with soil productivity loss in determining forest residue removals. *Biofuels* 1(4):539-46.
- Gan, J., and C.T. Smith. 2010. Coupling life-cycle analysis with supply chain optimization in determining biofuel plant size. *Silva Fennica* 44(3):497-510.
- Gan, J., J. Miller, H. Wang, and J. Taylor. 2009. Invasion of tallowtree (*Triadica sebifera*) into southern US forests: Influencing factors and implications for mitigation. *Canadian Journal of Forest Research* 39:1346-1356.
- Jarrett, A., J. Gan, C. Johnson, and I. Munn. 2009. Landowner awareness and adoption of wildfire programs in the southern United States. *Journal of Forestry* 107(3):113-118.
- Gan, J., H.M. Rauscher, C.T. Smith, S. Ashton, L. Biles, D. Cassidy, D. Foster, M.R. Howell, W.G. Hubbard, B. Jackson, C. Mayfield, D.J. Mead, S. Silveira, and E.



- Taylor. 2008. The Southern US forest bioenergy encyclopedia: Making scientific knowledge more accessible. *Southern Journal of Applied Forestry* 32(1):28-32.
- Curry, G.L., R.N. Coulson, J. Gan, M.D. Tchakerian, and C.T. Smith. 2008. An optimization based system model of disturbance generated forest biomass utilization. *Bulletin of Science, Technology and Society on Renewable Energy and Sustainability* 28(6):486-495.
- Gan, J. 2007. Supply of biomass, bioenergy, and carbon mitigation: Method and application. *Energy Policy* 35:6003-9.
- Gan, J., and B.A. McCarl. 2007. Measuring transnational leakage of forest conservation. *Ecological Economics* 64:423-432.
- Zhang, J., and J. Gan. 2007. Who will meet China's demand for imported forest products? *World Development* 35:2150-2160.
- Gan, J., and C.T. Smith. 2007. Co-benefits of utilizing logging residues for bioenergy production: The case for East Texas, USA. *Biomass and Bioenergy* 31:623-630.
- Mayfield, C. A., Foster, C. D., C. T. Smith, J. Gan, and S. Fox. 2007. Opportunities, barriers, and strategies for forest bioenergy and bio-based product development in the Southern United States. *Biomass and Bioenergy* 31:631-637.
- Gan, J. 2006. Consequences of neglecting national product differentiation in assessing the impact of US-Canada softwood lumber disputes. *Forest Science* 52(4):401-410.
- Gan, J., and C.T. Smith. 2006. Availability of logging residues and their potential for electricity production and carbon displacement in the US. *Biomass and Bioenergy* 30:1011-1020.
- Gan, J., and C.T. Smith. 2006. A comparative analysis of woody biomass and coal for electricity generation under various CO<sub>2</sub> emissions reductions and taxes. *Biomass and Bioenergy* 30:296-303.
- Gan, J. 2006. Substitutability between US domestic and imported forest products: The Armington approach. *Forest Science* 52(1):1-9.
- Gan, J. 2005. Causality among wildfire, ENSO, timber harvest, and urban sprawl: The vector autoregression approach. *Ecological Modelling* 191:304-314.
- Gan, J. 2005. Forest certification costs and global forest product trade and markets: A general equilibrium analysis. *Canadian Journal of Forest Research* 35(7):1731-1743.
- Gan, J., and E. Kebede. 2005. Multivariate probit modeling of decisions on timber harvesting and request for assistance by African-American forestland owners. *Southern Journal of Applied Forestry* 29(3):135-142.
- Gan, J., O. Okwudili, J. Schelhas, G. Wheelock, and M. Dubois. 2005. Does race matter in landowners' participation in conservation incentive programs. *Society and Natural Resources* 18(5):431-445.
- Gan, J. 2004. Effects of China's WTO accession on global forest product trade. *Journal of Forest Policy and Economics* 6(6):509-519.
- Gan, J. 2004. Risk and damage of southern pine beetle outbreaks under global climate change. *Forest Ecology and Management* 191:61-71.

- Onianwa, O., G. Wheelock, B. Gyawali, J. Gan, M. Dubois, and J. Schelhas. 2004. An analysis of factors affecting participation behavior of limited resource farmers in agricultural cost-share programs in Alabama. *Journal of Agribusiness* 22(1):17-29.
- Gan, J., and S. Ganguli. 2003. Effects of global trade liberalization on US forest products industries and trade: A computable general equilibrium analysis. *Forest Products Journal* 53(4):29-35.
- Gan, J., S.H. Kolison, and N.O. Tackie. 2003. African-American forestland owners in Alabama's Black Belt. *Journal of Forestry* 101(3):38-43.
- Kebede, E., J. Gan, and Z. Gebeyehu. 2003. Non-point source pollution and land use pattern linkage: A watershed approach. *Journal of Alabama Academy of Science* 74(3/4):197-209.
- Gan, J., S.H. Kolison, and J.P. Colletti. 2001. Optimal forest stock and harvest with valuing non-timber benefits: A case of the US coniferous forests. *Journal of Forest Policy and Economics* 2:167-178.
- Gan, J., and J.H. Miller. 2001. In the eye of the beholder: Public views on the aesthetic value of pine stands regenerated by different methods. *Forest Landowner (Manual)* 60(2):16-22.
- Gan, J., S.H. Kolison, and J.H. Miller. 2000. Public preferences of loblolly pine stands regenerated by different site preparation methods in Alabama. *Southern Journal of Applied Forestry* 24(3):145-149.
- Gan, J., S.H. Kolison, J.H. Miller, K. Kabongo, and T.M. Hargrove. 2000. Forest ecosystem management and its impacts on recreational values of loblolly pine stands. *Tuskegee Horizon* 8:23.
- Gan, J., and S.H. Kolison. 1999. Minority forestland owners in southeastern Alabama. *Southern Journal of Applied Forestry* 23(3):175-178.
- Kebede, E., and J. Gan. 1999. The economic potential of vegetable production for limited resource farmers in south central Alabama. *Journal of Agribusiness* 17(1):63-75.
- Gan, J., S.H. Kolison, J.H. Miller, and T.M. Hargrove. 1998. Effects of site preparation on timber and non-timber values of loblolly pine plantations. *Forest Ecology and Management* 107:47-53.
- Zhang, D., J. Liu, J. Granskog, and J. Gan. 1998. China: Changing wood products market. *Forest Products Journal* 48(6):14-20.
- Gan, J., and S.H. Kolison. 1997. Business cycles and forest products industries. *Forest Products Journal* 47(4):23-27.

### **Books and Special Issue**

- Bentsen, N.S., P. Lamers, C. Lalonde, M. Wellisch, V.H. Dale, I. Bonner, J. Jacobson, I. Stupak, J. Gan, and P. Girouard. 2017. Mobilisation of agricultural residues for bioenergy and higher value bio-products: Resources, barriers and sustainability. IEA Bioenergy, Paris, France. 121 p.
- Gan, J. (ed.). 2015. Climate Change and Forest Fire. Special Issue of *Forests*. [http://www.mdpi.com/journal/forests/special\\_issues/forest\\_fire](http://www.mdpi.com/journal/forests/special_issues/forest_fire).

- Gan, J., S. Grado, and I. Munn (eds.). 2010. *Global Change and Forestry: Economic and Policy Impacts and Responses*. Nova Science, NY. 347 pp.
- Richardson, J., A. Asikainen, R. Björheden, G. Egnell, J. Gan, B. Lattimore, D. Mead, S. Rose, K. Rosenbaum, C.T. Smith, I. Stupak, B. Titus, and M. Trossero. 2010. *Criteria and Indicators for Sustainable Woodfuels*. United Nations Food and Agriculture Organization (FAO), Rome, Italy. 92 pp.

### **Book Chapters**

- Chen, C., R. Qiu, and J. Gan. 2017. Energy use and CO<sub>2</sub> emissions in China's pulp and paper industry: Supply chain approach. P. 1193-1200 in: Proceedings of the International Conference on Civil, Architecture and Environmental Engineering, J.C.M. Kao and W.-P. Sung (eds.). CRC Press, Balkema, The Netherlands.
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### **Technical and Other Reports**

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## **E. Presentations**

### **Selected Invited Presentations**

- Gan, J. 2020. Forest conservation: Avoid unintended consequences. Campus Sustainability Event, Texas A&M University.
- Gan, J. 2020. Experiences in applying universal design in course design and teaching. Faculty Workshop on Universal Design for Learning, Texas A&M University.
- Gan, J. 2019. Experiences in applying universal design in course and assessment design and teaching. Faculty Workshop on Universal Design for Learning, Texas A&M University.
- Gan, J., I. Stupak, and C.T. Smith. 2018. Sustainability governance of biofuel and bioeconomic development: Complexity and data barriers. International Conference on Governing Sustainability of Bioenergy, Biomaterial and Bioproduct Supply Chains from Forest and Agricultural Landscapes, Copenhagen, Denmark.

- Stupak, I., C.T. Smith, J. Gan, etc. 2018. Approaches to creating trust in sustainability of bioenergy through effective governance. Canadian Institute of Forestry (CIF) and IEA Bioenergy Webinar.
- Gan, J., P. Cerutti, M. Masiero, D. Pettenella, N. Andrighetto, and T. Dawson. 2017. David and Goliath: Who's who in the discourse on illegal logging? IUFRO 125<sup>th</sup> Anniversary Congress, Freiburg, Germany.
- Gan, J., I. Stupak, and C.T. Smith. 2017. Integrating policy, market and technology in sustainability governance of agriculture-based biofuel and bioeconomic development in the U.S. IEA Bioenergy's Sustainability of Bioenergy Supply Chains workshop, Gothenburg, Sweden.
- Gan, J. 2017. Wildfire risk under climate change and landowner response in the U.S. Global Forum on Ecological Economics in Forestry, IUFRO's Division of Ecological Economy, Nanchang, China.
- Gan, J. 2016. Evidence and measurements of transfer effects: The case of forest conservation leakage. Transfer Effect Workshop, Environmental Defense Fund and the Bren School of Environmental Science and Management at University of California at Santa Barbara.
- Gan, J. 2016. Economics of illegal logging and timber trade. Scientific Meeting of IUFRO Global Forest Expert Panels, Vienna, Austria.
- Gan, J. 2016. Forest disturbances and climate variability. Annual meeting of the Texas chapter of the Society of American Foresters, Lofkin, TX .
- Gan, J. 2014. Transnational leakage of forest conservation: Implications for REDD and offshore outsourcing. IUFRO Global Forum on Ecological Economics in Forestry, Nanjing Forestry University, China.
- Gan, J. 2014. Why should we buy US-made forest products?--environmental and economic perspectives. Annual Meeting of Texas Chapter of the Society of American Foresters, Athens, TX
- Cashore, B., J. Gan, and M. Stone. 2012. Can legality verification ratchet up global forest governance?--theory, empirical evidence, and economic analysis. USDA Forest Service International Program, Washington, DC.
- Gan, J. 2012. Biomass supply beyond physical availability: Ecological, economic and social perspectives. Bioenergy Symposium, Tuskegee University (sponsored by USDA Office of Chief Economist).
- Gan, J. 2012. Invasion of Chinese tallow in U.S. southern forests. Yale Forestry Forum, Yale University.
- Gan, J. 2011. Transnational leakage of forest conservation: Concept, measurement and implication. Seminar and Lecture Series, School of Forestry and Environmental Studies, Yale University.
- Gan, J. 2011. Invasions of Chinese tallow on southern forestlands. Southern University.
- Gan, J. 2011. Adaptation and leakage: Two issues in assessing climate change impact and mitigation. Southern University.
- Gan, J. 2009. Biomass supply from southern family forestlands: Economic perspectives. Virginia Polytechnic Institute and State University.

- Gan, J. 2009. Principles, criteria and indicators for economic sustainability of woodfuel production. United Nations Food and Agricultural Organization (FAO), Rome, Italy.
- Gan, J. 2008. Economic and environmental reality and myth of forest bioenergy. University of Texas, San Antonio.
- Gan, J. 2008. Responsible forest management. Texas A&M University Student Governance Association.
- Gan, J. 2007. Economic potential of forest biomass for energy production and GHG mitigation. The Third China-US Relations Conference, Washington, DC.
- Gan, J. 2007. Using forest biomass for electricity production: Economic and environmental perspectives. The Third China-US Relations Conference, Washington, DC.
- Gan, J. 2007. Is forest bioenergy development good or bad to sustainable forest management? IUFRO Division VI Symposium: Integrative Science for Integrative Management, Saariselkä, Finland.
- Gan, J. 2007. Economic potential of southern forests for energy production. Technical Association of the Pulp and Paper Industry (TAPPI) International Symposium on Bioenergy, Atlanta, GA.
- Gan, J., B.A. McCarl, and J. Mjelde. 2006. Effects of climate change, forest certification, biotechnology, and industry concentration on the US forest products industry and trade, USDA Agricultural Markets and Trade Project Directors Meeting, Washington, DC.
- Gan, J. 2006. Impacts of forest biomass and bioenergy development on local and regional economies. Energy from Wood Conference, Raleigh, NC (sponsored by North Carolina Cooperative Extension Service, Duke University, and NC Division of Forest Resource).
- Smith, C.T., and J. Gan. 2005. An analysis of the forest biomass value chain in the United States. Status, Trends, and Future of the South's Forest and Agricultural Biomass Conference, Athens, GA.
- Gan, J. 2005. Substitutability between US domestic and imported forest products: The Armington approach. US-Canada Forest Products Trade Symposium, Michigan State University.
- Gan, J. 2004. Sustainable production of forest bioenergy/bio-based products. Workshop on Bioenergy and Bio-based Products from Sustainable Forest Management in the Southern United States, Houston, TX.
- Smith, C.T., and J. Gan. 2004. Forest biomass and bioenergy: Opportunities and barriers. Temple-Inland, Inc., Diboll, TX.
- Gan, J. 2004. Opportunities and challenges in exporting US forest products to China. Temple-Inland, Inc., Diboll, TX.
- Gan, J. 2003. Causality relationships among wildland fire, ENSO, timber harvest, and urban sprawl. Department of Agricultural Economics, Texas A&M University.
- Gan, J. 2000. Non-industrial private forests and owners: Research, applications, and perspective. School of Forest Resources, University of Arkansas-Monticello.

- Gan, J. 2000. Minority forestland owners and technical assistance. Tennessee State University.
- Kolison, S.H., and J. Gan. 1997. Making of the 21st century's forest resource economists. SOFEW, Little Rock, AR
- Gan, J. 1996. Modeling integrated natural resource management using compromise programming. Department of Agricultural Economics and Rural Sociology, Auburn University.
- Kolison, S.H., and J. Gan. 1995. The 21st century forester: Expectations and propensities. SAF Convention, Portland, ME.

**Other Presentations**

Presentations at professional conferences: Approximately 120.

**V. Teaching**

**A. Courses Taught**

**Table 1. Summary of courses taught.**

| <b>Course Code</b>                         | <b>Course Title</b>   | <b>Credit Hours</b> | <b>Frequency</b> |
|--|---|---------------------|------------------|
| <b>Texas A&amp;M University since 2001</b> |   |                     |                  |
| <i><b>Undergraduate</b></i>                |   |                     |                  |
| ESSM 308/<br>FRSC 302                      | Fundamentals of Environmental Decision-Making                                     | 3                   | Annual           |
| FRSC 404                                   | Forest Management   | 3                   | Annual (2001-12) |
| ESSM 405                                   | Forest Resource Assessment and Management (Senior capstone)                       | 3                   | Annual (2012- )  |
| FRSC 405                                   | Integrated Forest Resource Analysis and Planning (Senior capstone)                | 4                   | Annual (2001-12) |
| ESSM 491                                   | Undergraduate Research  | 1-5                 | Variable         |
| <i><b>Graduate</b></i>                     |   |                     |                  |
| AGEC 695                                   | Frontiers in Natural Resource Economics: Economics of Climate Change <sup>a</sup> | 3                   | Variable         |
| ESSM 605                                   | The Research Process  | 2                   | Annual           |
| ESSM 681                                   | Seminar   | 1                   | Variable         |
| ESSM 685                                   | Directed Studies  | 1-3                 | Variable         |
| ESSM 691                                   | Research  | 1-9                 | Variable         |
| <b>Tuskegee University, 1992-2001</b>      |   |                     |                  |
| <i><b>Undergraduate</b></i>                |   |                     |                  |
| 1FOR 205                                   | Introduction to Forestry  | 3                   | Annual           |
| 1FOR 402                                   | Forest Mensuration  | 3                   | Variable         |
| 1FOR 405                                   | Forest Economics  | 3                   | Variable         |
| <i><b>Graduate</b></i>                     |   |                     |                  |
| 1AGE 502                                   | Natural Resource Economics  | 3                   | Annual           |

|          |  |     |          |
|----------|--|-----|----------|
| 1AGE 513 | Production Economics <sup>a</sup>          | 3   | Annual   |
| 1AGE 600 | Graduate Seminar                           | 1   | Variable |
| 1AGE 604 | Microeconomics                             | 3   | Annual   |
| 1AGE 614 | Agricultural Policy                        | 3   | Variable |
| 1AGE 615 | Quantitative Methods (Econometrics)        | 3   | Annual   |
| 1AGE 630 | Special Problems in Agricultural Economics | 1-3 | Variable |
| 1AGE 700 | Research in Agricultural Economics         | 1-9 | Variable |
| 1ESC 595 | Special Problems in Envir. Science         | 1-3 | Variable |
| 1ESC 700 | Research in Environmental Science          | 1-9 | Variable |

<sup>a</sup> These courses were co-taught with other professors.

**Table 2. Guest lectures**

| Course Code | Course Title                          | Semester               | Institution |
|-------------|---------------------------------------|------------------------|-------------|
| ESSM 601    | Advances and Issues in Forest Science | 2005, 2007, 2010, 2011 | TAMU        |
| PLSS 100    | World Food and Fiber                  | 1993, 1996             | Tuskegee    |

## **B. Course and Curriculum Development**

### *Texas A&M University*

- 2019 Revised ESSM 308 (Fundamentals of Environmental Decision-Making) and developed it into an International and Cultural Diversity (ICD) course
- 2015, 2019 Revised ESSM 405 for recertification of its W status
- 2011-12 Revised ESSM 405 (Forestry capstone course) and developed it into a W (writing intensive) course
- 2010 Chaired Subcommittee on Undergraduate Management Core Curriculum, Department of Ecosystem Science and Management
- 2009 Served on a college committee to develop a strategic plan for globalization of undergraduate and graduate curricula
- 2008-09 Led in curriculum development for five undergraduate degree programs in the Department of Ecosystem Science and Management
- 2004 Led in curriculum development for the International Forestry emphasis
- 2004 Re-designed the Fundamentals of Environmental Decision-Making course
- 2004 Revised the Manufacturing and Applications of Wood Products course
- 2002 Re-designed the Research Process course by adding philosophy of science, critical and creative thinking, and research ethics and emphasizing research proposal development and review
- 2001 Developed the Integrated Forest Resource Analysis and Planning course, a capstone course for the Forestry major
- 2001 Re-designed the Forest Management course to emphasize sustainable ecosystem management and to incorporate emerging issues such as climate change, biomass/bioenergy, and real estate management

***Tuskegee University***

1998-2001 Led in curriculum and course development/revisions for the Forestry and Wildlife Biology degree programs, including joint degree programs (2+2 and 2+3) with eight universities across the U.S.

**C. Graduate Student Supervision**

**Chair/Co-chair**

***Texas A&M University***

Junyeong Choi, Ecology and Conservation Biology (Ph.D.)  
Soyoung Lee, Ecosystem Science and Management (Ph.D.)  
Juanita Huff, Ecosystem Science and Management (Ph.D.)  
Hyunjin An, Ecosystem Science and Management (Ph.D.)  
Dianne Stromann, Ecosystem Science and Management (Ph.D., co-chaired with U. Kreuter)  
Wenjun Chen, Ecosystem Science and Management (Ph.D.)  
Kathryn Clifton Ramirez, Rangeland Ecosystem and Management (Ph.D.)  
Darmawan Prasodjo, Agricultural Economics (Ph.D, co-chaired with B.A. McCarl)  
Hsiao-Hsuan Wang, Forestry (Ph.D.)  
En Zhu, Agricultural Economics (Ph.D., co-chaired with B.A. McCarl)  
David Mushal, Natural Resource Development (Master)  
Yavuz Doner, Ecosystem Science and Management (M.S.)  
Eboni Hall, Natural Resource Development (Master non-thesis, co-chaired with J. Vogel)  
Darren Ream, Forestry (Master non-thesis)  
Adam Jarrett, Forestry (M.S.)

***Tuskegee University (all M.S. students)***

Amadou Diop, Agricultural Economics  
Sabyasachi Ganguli, Agricultural Economics  
Tracy L. Lane, Environmental Science  
Philip C. Murdock, Environmental Science  
K. Kabongo, Agricultural Economics  
Andrea M. Parmer, Agricultural Economics  
Alioune Dieng, Agricultural Economics  
Kimberlee C. Higgs, Agricultural Economics  
Latascha C. Young, Environmental Science  
Tasha M. Hargrove, Agricultural Economics  
Rory Stephen, Environmental Science  
April Freeman, Agricultural Economics  
Terrelyn S. Turman, Agricultural Economics

## **Committee Member**

### ***Texas A&M University***

Brittany Segundo, Industrial and Systems Engineering (Ph.D.)  
Sung Ju Cho, Agricultural Economics (Ph.D.)  
Jinxiu Ding, Agricultural Economics (Ph.D.)  
Ruth A. Amuta, Agricultural Economics (Ph.D.)  
Ji Yun Park, Agricultural Economics (Ph.D.)  
Juan Monge, Agricultural Economics (Ph.D.)  
Yuquan Zhang, Agricultural Economics (Ph.D.)  
Xavier Villavicencio, Agricultural Economics (Ph.D.)  
Jody Campiche, Agricultural Economics (Ph.D.)  
Kenneth D. McGee, Educational Psychology (Ph.D.)  
Ilyas J. Najmuddin, Geophysics (Ph.D.)  
Adriana M. Ricks Putman, Ecology and Conservation Biology (M.S.)  
Kevin Fasnacht, Agricultural Economics (M.S.)  
Clay Thompson, Wildlife and Fisheries Science (M.S.)  
Hannah Ahn, Agricultural Economics (M.S.)  
Won Ju Lee, Industrial Engineering (M.S.)

### ***Tuskegee University (All M.S. students)***

Austin Percival, Agricultural Economics  
Andrei Cotton, Agricultural Economics  
Regine Louis, Environmental Science  
Evelyn Boateng, Agricultural Economics  
John Kagochi, Agricultural Economics  
Annonya Akuley, Agricultural Economics  
Carmelita Cavaness, Environmental Science  
Andrea Y. Foye, Agricultural Economics  
Mour Gueye, Plant and Soil Science  
Qinhua Liao, Environmental Science  
Geoffrey Eveas, Agricultural Economics  
Charmaine Parchment, Environmental Science  
Reginald Plummer, Agricultural Economics  
Tammy Smith, Agricultural Economics  
Paul Hinds, Environmental Science  
Octavia Jackson, Agricultural Economics  
Youssouf Diabate, Agricultural Economics  
Allen Herrera, Environmental Science  
Melanie Lunsford, Agricultural Economics  
Souhayata Maiga, Environmental Science  
Abdulkudos A. Almarwani, Agricultural Economics  
Gerald Essono, Agricultural Economics  
Henry Gaga, Agricultural Economics  
Melise D. Huggins, Agricultural Economics  
Monique N. Ouli, Agricultural Economics

### **External joint Supervisor of Ph.D. Candidate**

Jorge Amaro Bastos Alves, Science and Environmental Technology, Universidade do Vale do Itajaí, Brazil

### **External Examiner of Ph.D. dissertations**

Zhirong Wu, Forestry, Fujian Agriculture and Forestry University, China  
Zhenbin Liu, Rural Development, Fujian Agriculture and Forestry University, China  
Cheng Chen, Forestry, Fujian Agriculture and Forestry University, China  
Martin H. Kijazi, Forestry, University of Toronto, Canada

### **D. Supervision of Research Associates and Visiting Scholars/Scientists**

Jorge Alves, Visiting Scholar, Universidade do Vale do Itajaí, Brazil, 2019  
Zhonghua Yin, Visiting Scholar, Beijing Forestry University, China, 2018-19  
JinHan Park, Visiting Scholar, South Korea, 2017-19  
Sen Lin, Visiting Scholar, Fujian Agriculture and Forestry University, China, 2016-17  
Rongzu Qi, Visiting Scholar, Fujian Agriculture and Forestry University, China, 2014-15  
Shipeng Su, Visiting Scholar, Fujian Agriculture and Forestry University, China, 2013-14  
M.A. Salam, IDB Fellow, Bangladesh Agricultural University, 2011  
Sangdo (Sam) Choi, Research Associate, 2010  
Thanigaivel Kulandaivelu, Research Associate, 2010  
Giriregan Seshadri, Research Associate, 2009  
Charly Facheux, Norman E. Borlaug International Science and Technology Fellow, Cameroon, 2006  
Cheryl Mayfield, Research Associate, 2005-09 (co-supervisors: C.T. Smith and D. Foster)  
Elizabeth M. Remedio, Fulbright Scholar, University of San Carlos, Philippines, 2005  
Jianhui Yu, Visiting Scholar, Fujian Agriculture and Forestry University, China, 2002-03  
Anli Yang, Visiting Scholar, People's Bank of China, Shanghai, 1993-94

### **E. Graduate Teaching Assistant**

Virginia Preiss, 2021  
Creighton Meyers, 2021  
Christopher Adkison, 2019 & 2020  
Erin Nguyen, 2020  
Paul Goetze, 2019  
Ajinkya Deshpande, 2017  
Kyle Clifton, 2016  
Juanita Huff, 2015  
Hyunjin An, 2014  
Kathryn Clifton, 2013



## **F. Undergraduate Advising**

Caleb Pagel, Undergraduate Teaching Intern, 2017

Randall Martin, Undergraduate Teaching and Research Intern, 2016

Berry Isensee, Undergraduate Teaching Intern, 2015

Adam Jarrett, Undergraduate Research Assistant, 2005

Advised approximately 20 students per year in Forestry and Wildlife Biology at Tuskegee University, 1998-2001

## **VI. Service**

### **A. Department, College, and University Service**

Faculty Co-Advisor. Forestry Club, 2021-

Member, Awards Committee, Department of Ecology and Conservation Biology, 2020-

Member, P&T Committee, Department of Ecology and Conservation Biology, 2020-

Member, P&T Policy Committee, Department of Ecology and Conservation Biology, 2020

Coordinator, Development of one-pagers of impact reports for six McIntire-Stennis projects/programs at TAMU, 2018-19

Chair, Awards Committee, Department of Ecosystem Science and Management, 2016-20

Member, Forest Biologist Faculty Search Committee, Department of Ecosystem Science and Management, 2016

Coach, Texas A&M University's Society of American Foresters (SAF) Quiz Bowl Team, 2016

Member, Texas A&M University Scholars Interview Panel, 2013

Chair, SAF Re-accreditation Committee, Department of Ecosystem Science and Management, 2012-13

Member, Promotion and Tenure Committee, Department of Ecosystem Science and Management, 2007-15, 2019-20

Member, Human Dimensions Faculty Search Committee, Department of Ecosystem Science and Management, 2012-13

Evaluator, Graduate Merit Scholarship, Office of Graduate Studies, 2010

Member, Graduate Program Council, College of Agriculture and Life Science, 2009-11

Chair, Graduate Admissions Committee and Graduate Scholarships Committee, Department of Ecosystem Science and Management, 2009-11

Member, Task Force for Curriculum Globalization, College of Agriculture and Life Science, 2009.

Chair, Seminar Committee, Department of Ecosystem Science and Management, 2009.

Chair, Faculty Search Committee, Department of Ecosystem Science and Management, 2008-09.

Chair, Undergraduate Programs Committee and Undergraduate Scholarships Committee, Department of Ecosystem Science and Management, 2008-09

Faculty Advisor, Student Chapter of the Society of American Foresters and the Forestry Club, 2008-09; Co-Advisor, 2019

Member, Graduate Programs Committee, Department of Ecosystem Science and Management, 2007-09  
 Member, Exploratory Committee, College of Agriculture and Life Sciences, 2005  
 Member, Undergraduate Programs Committee, Department of Forest Science, 2001-06  
 Chair, Ad Hoc Committee on developing a curriculum for an International Forestry emphasis, Department of Forest Science, 2004-05  
 Member, Forest Resources Program Council of Tuskegee University, 1998-2001  
 Secretary, Interdisciplinary Working Committee, Tuskegee, 1994-98  
 Member, Faculty Panel and Technical Program Committee of the Tuskegee University and Sokoine University (Tanzania) institutional linkage project, 1996-2001  
 Dean's representative to Alabama Consortium for Forestry Education and Research, 1998-2001  
 Dean's representative to Alabama (State) Forestry Planning Committee, 1998-2001  
 Department's representative to the University's Y2K Committee, 1999-2000  
 Faculty Advisor, Forestry Club, 1998-2001

## **B. Service to Professional Organizations**

Member, Texas Accredited Foresters Council, 2021-  
 Representative, Texas Forestry Council, 2020-  
 Representative, National Association of University Forest Resources Programs (NAUFRP), 2018-  
 McIntire-Stennis Administrative Technical Representative, 2018-  
 Chair, 2007 Southern Forest Economics Workshop (SOFEW)  
 Co-chair, Research Roundtable on Bioenergy Development, Climate Change Mitigation, and Energy Security at the Third George Bush China-US Relations Conference, Washington, DC, 2007  
 Co-chair, Research Roundtable on Wetland Conservation, Nature-Based Tourism, and Rural Economic Development at the Second George Bush China-US Relations Conference, Beijing, China, 2005  
 Session moderator, 2004 SOFEW  
 Session moderator, Roundtable on Trade and Business Development at the First George Bush China-US Relations Conference, College Station, Texas, 2003  
 Member, Steering Committee for the Symposium on Embracing Diversity in Natural Resources: Blueprint to Success, 1994  
 Field Trip Coordinator, International Workshop on Participatory Collaborative Research Methodologies, 1995  
 Treasurer, Tuskegee University's Chapter of Gamma Sigma Delta Agricultural Honor Society, 1994-96  
 Member, Modeling and Economic Working Group and the Philippines Site Group for the Sustainable Agriculture and Natural Resource Cooperative Research Support Program (SANREM CRSP), 1992-98

## C. Grant Proposal, Manuscript, and Tenure/Promotion Review

### Funding Agencies

#### *Panelist*

Swedish Research Council, 2015  
USDA NIFA Environmental and Resource Economics, 2015, 2020  
US National Academy of Sciences and Ford Foundation, 2013, 2014  
USDA NIFA Coordinated Agricultural Projects (CAP), 2013  
NSF Chemical, Bioengineering, Environmental, and Transport Systems (CBET), 2009  
NSF Graduate Fellowships, 2007, 2010  
USDA NIFA Threshold in AgroEcosystems, 2011  
USDA NIFA Management in AgroEcosystems, 2011  
USDA NIFA Small- and Medium-Sized Farms, 2010  
USDA NIFA Rural Communities, 2010  
USDA Forest Service, Biomass R&D Grants, 2009  
USDA CSREES Higher Education Challenge Grants, 2006  
USDA CSREES National Needs Graduate and Postgraduate Fellowship Grants, 2005, 2007, 2010  
USDA CSREES Higher Education Multicultural Scholars, 2005, 2006, 2008  
USDA CSREES 1890 Institution Teaching and Research Capacity Building Grants, 2003-05

#### *Ad hoc reviewer*

USDA NIFA Sustainable Bioenergy, 2011  
NSF Chemical, Bioengineering, Environmental, and Transport Systems, 2010  
USDA NIFA Sustainable Bioenergy, 2010  
USDOE Sun Grants, 2008  
USDA Small Business Innovation Research (SBIR), 2007  
US Civilian Research and Development Foundation (CRDF), 2006  
USDA CSREES National Needs Graduate and Postgraduate Fellowship Grants, 2006  
NSF Economics, 2004  
USDA National Research Initiative Competitive Grants Program (NRICGP) Trade and Markets, 1998, 2008  
US National Research Council, 1993  
Invited to serve as overseas peer review expert for the National Natural Science Foundation of China, 2003

### Journals

*Readers Advisory Panelist:* Nature, 2009-10

*Associate Editor:* Southern Journal Applied Forestry, 2008-10

*Editorial Board:* International Journal of Forestry Research, 2008-

*Associate Editor and Editorial Board:* Canadian Journal of Forest Research, 2007-16

*Guest Associate Editor:* Forest Science, 2005

**Guest Editor:** Climate, 2021; Forests, 2015

***Ad hoc Reviewer***

*Agroforestry Systems; Biomass and Bioenergy; Canadian Journal of Forest Research; Choices; Computers and Electronics in Agriculture; Ecological Economics; Energy Policy; Energy, Sustainability and Society; Environmental Conservation (An International Journal of Environmental Science); Environmental and Resource Economics; Forest Science; GeoJournal; International Journal of Forest Engineering; Journal of Agricultural and Applied Economics; Journal of Environmental Management; Journal of Forest Economics; Journal of Forest Policy and Economics; Journal of Forestry; Journal of Sustainable Forestry; Journal of Tropical Forest Science; Land Economics; Nature Sustainability; Philippine Journal of Science; Resources, Conservation and Recycling; Resource and Environmental Economics; Scientific Reports; Southern Journal of Applied Forestry; Tuskegee Horizon; World Development*

**Organizations**

***Expert or Ad hoc Reviewer***

University of British Columbia, Canada: Online Masters curriculum and courses on sustainable forest management, 2021  
USDA Forest Service: A national study report on illegal logging in Peru, 2020  
IPCC: Working Group II (WGII) Contribution to the IPCC Sixth Assessment Report (AR6), 2019  
Springer: Book proposal review, 2018  
USDA Forest Service: Technical Assistance Review of Human and Natural Systems Research, 2014  
USDA Forest Service: Factsheet on invasive species, 2012  
USDA Forest Service: Manuscripts for journal submission, 2011, 2012  
USDA: Southern Forest Future Project, 2011  
Texas Forest Service: Ecosystem service valuation, 2013  
Hindawi Publishing Corporation: Special Issue Proposals for the International Journal of Forestry Research, 2011, 2012, 2013  
International Union of Forest Research Organizations (IUFRO): Book review, 2009  
Elsevier: Book proposal reviews, 2007, 2015  
USDOE and USDA: Review of a national assessment on biomass availability (the billion tons report), 2005  
Forest Policy Center, Auburn University: Manuscript review for a book, 2001  
McGraw-Hill: Book reviews, 1998, 2000  
Association of Research Directors, Inc.: Manuscript reviews for the best paper award, 1995-2000  
Sustainable Agriculture and Natural Resource Management Cooperative Research Support Program (SAREM CRSP): Research proposal reviews, 1995-98

***Tenure and Promotion Reviewer***

Auburn University, Iowa State University, Lakehead University (Canada), Michigan State University, Montclair State University (2), University of Georgia, University of Missouri, and US Forest Service

**D. Professional Affiliations**

Society of American Foresters  
International Society of Forest Resource Economics  
Southern Forest Economics Workers (SOFEW)  
Texas Forestry Association  
Midwest Forest Economics Association  
Sigma Xi Research Society

**E. Other Professional Service**

AdventGX™  
Borlaug Institute  
Environmental Defense Fund  
Heinz Center for Science, Economics, and the Environment  
International Energy Agency (IEA) Bioenergy  
International Union of Forest Research Organizations (IUFRO)  
Pinchot Institute for Conservation  
Southeast Region Biomass Energy Feedstock Partnership  
Southeastern Consortium for International Development (SECID)  
Southern Forestry Research Partnership  
Technical Association of the Pulp and Paper Industry (TAPPI)  
Temple-Inland, Inc.  
Texas Forest Industries Council  
United Nations Environmental Programme (UNEP)  
United Nations Food and Agriculture Organization  
US Agency for International Development  
US Department of Agriculture (Foreign Agricultural Service, Forest Service)