

# JIANBANG GAN, PH.D.

## CURRICULUM VITAE

### 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

### PROFESSIONAL EXPERIENCE

2008-present Professor, Department of Ecology and Conservation Biology (2020-present) and Department of Ecosystem Science and Management (2008-2019), Texas A&M University

2016-present Faculty Affiliate, Texas A&M Energy Institute

2018 (spring) Visiting Scientist, Scion (a Crown Research Institute), 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, Department of Ecosystem Science and Management, jointly appointed in Agricultural Economics, Texas A&M University

1992-2001 Faculty (Assistant Professor, 1992-1997; Associate Professor, 1997-1999; 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

### Contact

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### SCHOLARLY ACTIVITY

#### Key Extramural Funding

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##### PI/Co-PI for more than 35 projects with total funding of over \$30 million

- > Collaborative research: Fuel treatment planning optimization for wildfire management, National Science Foundation (NSF), \$550,000, 2020-2023 (with O. Prokopyev and L. Ntamo) (Co-PI)
- > US-India consortium for development of sustainable advanced lignocellulosic biofuel systems, US Department of Energy, \$6.25 million, 2012-2017 (with P. Pullammanappallil et al.) (Co-PI)
- > Integrating research, education and extension for enhancing southern pine climate change mitigation and adaptation, US Department of Agriculture (USDA) National Institute of Food and Agriculture (NIFA), \$20 million, 2011-2017 (with T. Martin et al.) (Project Executive Committee, Economics and Policy Aim Co-leader, Co-PI)
- > Sustainable forestry for bioenergy and bio-based products, Biomass Research and Development Initiative, \$1,000,000, 2004-2007 (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, \$175,000, 2003-2007 (with B.A. McCarl and J.W. Mjelde) (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)

## Selected Publications

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- > An, H., and J. Gan. 2022. Periods and amplitudes of southern pine beetle infestations under climate change. *Climate* 10(9):126. <https://doi.org/10.3390/cli10090126>.
- > 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* 55(13):8492-8501.
- > 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 US. *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>.
- > 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.
- > 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.
- > 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 US: An exploratory spatial data analysis approach. *Forest Policy and Economics* 13(1):24-36.
- > Gan, J. 2007. Supply of biomass, bioenergy, and carbon mitigation: Method and application. *Energy Policy* 35:6003-6009.
- > Gan, J., and B.A. McCarl. 2007. Measuring transnational leakage of forest conservation. *Ecological Economics* 64:423-432.
- > 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. Risk and damage of southern pine beetle outbreaks under global climate change. *Forest Ecology and Management* 191:61-71.
- > 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.

## Special Recognitions and Services

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- > Partnership Award for Mission Integration of Research, Education, and Extension, USDA NIFA, 2016.
- > Lead Author of a global scientific assessment on illegal logging and related timber trade (UNEP, IUFRO), 2016.
- > Research, Development and Innovation Award, Texas Forestry Association, 2010.
- > Grant Review Panelist for NSF, National Academy of Sciences, USDA, Ford Foundation, and Swedish Research Council.
- > Associate Editor: *Frontiers in Energy Research* and in *Bioengineering and Biotechnology*, 2022-present; *Canadian Journal of Forest Research*, 2007-2016; *Southern Journal of Applied Forestry*, 2008-2010; *Forest Science*, 2005 (Guest)
- > Guest Editor: *Climate*, 2021-2023; *Frontiers in Energy Research*, 2021-2022; *Forests*, 2015.
- > Certificate of Appreciation from the President of Tuskegee University, 2001.
- > Faculty Outstanding Performance Award in Teaching, Tuskegee University, 1997.