

CHING-HSUN HUANG, Ph.D.
Professor of Forest Economics and Forest Management
School of Forestry
College of Engineering, Forestry and Natural Sciences (CEFNS)
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EDUCATION AND TRAINING:

- Ph.D. 1995-1999 Forest Economics, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, Texas
Dissertation Topic:
Economic Analysis of Carbon Storage in Loblolly Pine Plantations
Minors in Business, Mathematics and Statistics
- M.S. 1992-1993 Environmental Management, University of Houston-Clear Lake, Houston, Texas
- B.S. 1986-1990 Forestry, Chinese Culture University, Taipei, Taiwan.

RESEARCH AND PROFESSIONAL EXPERIENCE:

- March 2018-present Professor in Forest Economics and Forest Management, School of Forestry, Northern Arizona University, Flagstaff, Arizona
- August 2017-December 2017 Interim Executive Director, School of Forestry, Northern Arizona University, Flagstaff, Arizona
- March 2012-February 2018 Associate Professor in Forest Economics and Forest Management, School of Forestry, Northern Arizona University, Flagstaff, Arizona
- August 2007-February 2012 Assistant Professor in Forest Economics and Forest Management, School of Forestry, Northern Arizona University, Flagstaff, Arizona
- August 2006-July 2007 Assistant Professor in Natural Resources Economics, Department of Agronomy and Resource Sciences, College of Agriculture and Human Sciences, Texas A&M University-Kingsville, Texas
- 2003-July 2006 Research Scientist in Forest Economics and Management, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, Texas
- 2000 - 2002 Post Doctorate Research Associate in Forest Economics and Management, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, Texas
- 1996 - 1999 Research Assistant, Forest Economics, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, Texas
- 1993 - 1994 Taiwan EPA Research Assistant, Department of Public Health, Taipei Medical College/Taiwan Environmental Protection Administration (EPA).

FUNDED GRANTS:

1. Title of Project: Enhancement of Terrestrial Carbon Sinks through Reclamation of Abandoned Mine Lands in the Appalachian Region supported by U.S. Department of Energy (2000-2003). Total Amount: \$759,960 (DOE share: \$587,300; private share: \$172,660)

2. Title of Project: Managing Commercial Tree Species for Timber Production and Carbon Sequestration: Management Guidelines and Financial Returns supported by U.S. Department of Energy (2003-2006). Total Amount: \$445,599
3. Title of project: Economic Value of Wildlife in South Texas supported by Caesar Kleberg Wildlife Research Institute. Total Amount: \$50,000, 2-year M.S. Fellowship (2006-2008)

With NAU (from Fall 2007 to present)

Funded Grants and Internships:

4. Title of Project: Forest Bioenergy & Biofuels Integration (ForBio Southwest): Sustainability, Energy Balance and Emissions from Forest Restoration in the Southern Rocky Mountains (Co-PI)
Supporting Institute: US Department of Agriculture, National Institute of Food and Agriculture: Biomass Research and Development Initiative (2017-2020)
Total amount: \$1.6 million (NAU lead investigator; NAU share: \$240,239)
5. Title of Project: Wildfire Feedback and Fuel Management Interactions on Arizona National Forests (PI)
Supporting Institute: US Department of Agriculture, Forest Service, Rocky Mountain Research Station (2018-2020)
Total amount: \$300,000
6. Title of Project: Energy production, water consumption and greenhouse gas emissions
Supporting Institute: NAU/NASA Space Grant Undergraduate Research Internship program in astronomy at Northern Arizona University (2017-2018). Colin Towne, a junior forestry student, has been assigned to me as an NAU/NASA Space Grant intern starting in Fall 2017.
7. Title: Evaluation of Wildfire Management Strategies to Enhance Highly Valued Resources and Assets (Fall 2017)
Supporting Institute: NAU Undergraduate Research, the Interns-to-Scholars program (I2S), paid opportunities for undergraduate students to participate in research, scholarly, or creative projects.
8. Title of Project: Economic Analysis of Fuel Treatment Effectiveness in Ponderosa Pine Forests of the Southwest (PI)
Supporting Institute: NIFA McIntire Stennis (2015-2019)
Total amount: \$121,404
9. Title: CEFNS Granting Writing Award (PI)
Supporting Institute: Northern Arizona University (2014)
Total Amount: \$9,021
10. Title of Project: Optimizing forest ecosystem services and economic opportunities in Arizona (PI)
Supporting Institute NIFA McIntire Stennis (2010-2014)
Total amount: \$121,404
11. Title: Translating Forest Science for Global Practitioners (Co-PI) (PI: Kolb)
Supporting Institute: The USDA National Institute of Food and Agriculture, National Needs Graduate and Postgraduate Fellowships Program (2012-2016)
Total amount: \$251,500
12. Title of Project: The economics of using forests to increase carbon storage and income opportunities in the American Southwest (PI)

- Supporting Institute: Northern Arizona University (2008-2010)
Total Amount: \$50,524
13. Title of Project: An Economic Analysis of Wood to Energy on National Forests in Northern Arizona (PI)
Supporting Institute: Northern Arizona University (2011-2012)
Total Amount: \$10,000
14. Title of Project: Western Conifer Forest Systems: Strategies for Climate Change Adaptation and Mitigation (Team Leader in Economics Group) (PI: Howe)
Supporting Institute: USDA Agriculture and food research initiative competitive grants program-climate change; regional approaches to climate change: planning (2010-2011)
Total Amount: \$49,848
15. Title of Project: Economic Impacts of Fire Hazard Reduction Treatments on the Navajo Nation (PI)
Supporting Institute: Northern Arizona University (2010-2011)
Total Amount: \$10,180
16. Title of Project: Proposal for Online Skills-Based (Plus) Courses in Management, Policy, Law, or Other Related Areas for Professional Science Master's (PSM) Degrees at the Arizona Public Universities (PI)
Supporting Institute: Northern Arizona University, Graduate College (2010)
Total Amount: \$3,000
17. Title of Project: Financial Feasibility of Enhancing Economic Development of Arizona's Native American Tribes through a Tradable Carbon Rights System (PI)
Supporting Institute: Northern Arizona University (2008-2009)
Total Amount: \$8,500
18. Title of Project: The Economic Value of Goods and Services from Managed Forest Ecosystems in the Southwestern US: Developing a Verification Methodology for Forest Carbon Sequestration within Forest Restoration Projects (Co-PI) (PI: Finkral)
Supporting Institute: Northern Arizona University (2008-2010)
Total Amount: \$87,780
19. Title of Project: The Economic Value of Carbon Sequestration in Southwestern Ponderosa Pine Forests (Co-PI) (PI: Finkral)
Supporting Institute: USDA Rocky Mountain Research Station (2008-2010)
Total Amount: \$59,518

HONORS & AWARDS:

- Distinguished Professor, Teacher of the Year Award 2016-2017, College of Engineering, Forestry & Natural Science (CEFNS), Northern Arizona University
- Teacher of the Year for 2014 Award, Xi Sigma Pi-Alpha Pi, the National Forestry Honor Society, Northern Arizona University
- College of Engineering, Forestry & Natural Science Travel Grant Award, 2017
- College of Engineering, Forestry & Natural Science Travel Grant Award, 2016
- College of Engineering, Forestry & Natural Science Grant Writing Award, 2014
- Nominee for the Teach of the Year 2014 and 2015, College of Engineering, Forestry & Natural Science
- Teacher of the Year Award, School of Forestry, Northern Arizona University, 2012

- Nominee for “Most Promising New Scholar”, Research and Creative Activity Award, 2009
- The Marilyn M. Odom Outstanding Graduate Student Award, May 2000
- The William R. Johnson Outstanding Thesis Award, 1999
- Xi Sigma Pi National Forestry Honor Society
- Bonehill Foundation Academic Scholarship 1996, 1997, 1998, 1999
- “Who’s Who Among Students in American Universities and Colleges” Award

PUBLICATIONS LIST:

Refereed Journal Articles

1. Bagdon¹, B., Huang, C., Sanchez-Meador, A., and Dewhurst, S. 2017. Climate change constrains the efficiency frontier when managing forests to reduce fire severity and maximize carbon storage. *Ecological Economics*. 140 (2017) 201–214.
2. Huang, C., and Bagdon¹, B. 2018. Quantifying Environmental and Health Benefits of Using Woody Biomass for Electricity Generation in the Southwestern United States. *Journal of Forest Economics* (in Revision).
3. Miller¹, R., Nielsen, E., and Huang, C. 2017. Ecosystem Service Valuation through Wildfire Risk Mitigation: Design, Governance, and Outcomes of the Flagstaff Watershed Protection Project (FWPP). *Forests*. 2017, 8(5), 142; doi:[10.3390/f8050142](https://doi.org/10.3390/f8050142).
4. Hoyt¹ H., W. Hornsby, C. Huang, J. Jacobs and R. Mathiasen. 2017. Dwarf Mistletoe Control on the Mescalero Apache Indian Reservation, New Mexico. *Journal of Forestry*. Special Issue on Tribal Forest Management: Innovations for Sustainable Forest Management. Volume 115, Number 5, 25 September 2017, pp. 379-384(6)
5. Bagdon¹, B., and Huang, C. 2016. Review of Economic Benefits from Fuel Reduction Treatments in the Fire Prone Forests of the Southwestern United States. Southwest Fire Science Consortium, Northern Arizona University http://swfireconsortium.org/wp-content/uploads/2016/11/Econ_Final_Web.pdf
6. Bagdon¹ B., Huang, C., and Dewhurst, S. 2016. Managing for ecosystem services in northern Arizona ponderosa pine forests using a novel simulation-to-optimization methodology. *Ecological Modelling*. 324 (2016) 11-27.
7. Bagdon¹, B., and Huang, C. 2014. Carbon Stocks and Climate Change: Management Implications in Northern Arizona Ponderosa Pine Forests in Special issue of Forest and Wood Vegetation Carbon Stores and Sequestration. *Forests* 2014, 5, 620-642; doi:[10.3390/f5040620](https://doi.org/10.3390/f5040620).
8. Huang, C., Finkral, A.J., Sorensen¹, C., and Kolb, T.E. 2013. Towards Full Economic Valuation of Forest Fuels-Reduction Treatments. *Journal of Environmental Management* 130 (2013) 221-231.
9. Vegh¹, T., Huang, C., and Finkral, A.J. 2013. Carbon Credit Possibilities and Economic Implications of Fuel Reduction Treatments. *Western Journal of Applied Forestry*. 28(2): 57-65.
10. Huang, C., and Sorensen¹, C. 2011. The Economic Value of Selling Carbon Credits from Restored Forests: A Case Study from the Navajo Nation’s Tribal Forests. *Western Journal of Applied Forestry*. 26(1):37-45.
11. Sorensen¹, C., Finkral, A.J., Kolb, T.E., and Huang, C. 2011. Short- and Long-Term Effects of Thinning and Prescribed Fire on Carbon Stocks in Ponderosa Pine Stands in Northern Arizona. *Forest Ecology and Management*. 261:460-472.

12. Huang, C., and Sorensen¹, C. September 2010. Exploring the Potential of Obtaining Carbon Credits for Restoration Activities on Navajo Tribal Forest Lands. Ecological Restoration Institute.
13. Huang, C. 2009. Economics of Northern Bobwhite and Timber Management in the Southeastern United States. *Journal of Wildlife Management*. 73(8):1355-1361.
14. Waring, K.M., D.M. Reboletti¹, L.A.. Mork¹, C. Huang, R.W. Hofstetter, A.M. Garcia¹, P.Z. Fulé, and T.S. Davis¹. 2009. Modeling the Impacts of Two Bark Beetle Species under a Warming Climate in the Southwestern USA: Ecological and Economic Consequences. *Environmental Management* 44(4):824-835. DOI 10.1007/s00267-009-9342-4.
15. Huang, C. and Kronrad, G.D. 2006. The Effect of Carbon Revenues on the Rotation and Profitability of Loblolly Pine Plantations in East Texas. *Southern Journal of Applied Forestry*. 30(1):1-9.
16. Huang, C., G.D. Kronrad and J. Morton¹. 2005. The Financially Optimal Loblolly Pine Planting Density and Management Regime for Nonindustrial Private Forestland in East Texas. *Southern Journal of Applied Forestry* 29(1):16-21.
17. Huang, C. and Kronrad, G.D. 2004. Economic Analysis of Carbon Sequestration in Northern Red Oak in the United States. *World Resource Review*. 16(2):147-156.
18. Huang, C., and G.D. Kronrad. 2004. Economic Analysis of Pruning and Low Density Management Compared to Traditional Management of Loblolly Pine Plantations in East Texas. *Southern Journal of Applied Forestry* 28(1):12-20.
19. Huang, C., Bates¹, R., G.D. Kronrad, and S. Cheng¹. 2004. Economic Analyses of Sequestering Carbon in Loblolly Pine, Cherrybark Oak and Northern Red Oak in the United States. *Environmental Management*. Vol. 33 Supplement 1, pp. S187–S199. DOI: 10.1007/s00267-003-9129-y.
20. Huang, C., G.D. Kronrad, and S. Cheng¹. 2003. Economic Analysis of Sequestering Carbon in Green Ash Forests in the Lower Mississippi River Valley. *TheScientificWorldJOURNAL*. 3:731-740.
21. Kronrad, G.D., S. Cheng¹, and C. Huang. 2003. Sequestering Carbon in Forests in the Lower Mississippi River Valley in the United States: An Economic Analysis. *World Resource Review*. 15(3):319-335.
22. Huang, C., and G.D. Kronrad. February 2002. Financially Optimal Thinning and Final Harvest Schedules for Loblolly Pine Plantations on Nonindustrial Private Forestland. *Southern Journal of Applied Forestry*. 26(1):13-17.
23. Huang, C., and G.D. Kronrad. 2002. The Cost of Sequestering Carbon in Forests of the Southern United States. *World Resource Review*. Vol. 14, No. 3, P. 385-397.
24. Huang, C., and G.D. Kronrad. 2001. The Cost of Sequestering Carbon on Private Forest Lands. *Forest Policy and Economics*. P. 133-142.

Non- Refereed Journal Articles:

25. Huang, C., G.D. Kronrad, and S. Cheng¹. 2003. Economic Analysis of Sequestering Carbon in Forests Planted in the U.S. The Proceedings of the 12th International Conference on Coal Science. November 2-6, 2003. Cairns, Queensland, Australia.
26. Huang, C., and G.D. Kronrad. 2003. The Effects of a Carbon Credit Market and Sequestration Policies on Private Forestry in the Southern United States. Forest Policy Center Conference Proceedings. March 25-27, 2001. Atlanta, Georgia. P. 28-37.
27. Kronrad, G.D., R. Bates¹, and C. Huang. 2002. Enhancement of Terrestrial Carbon Sinks

- through Reclamation of Abandoned Mine Land in the Appalachian Region. The Proceedings of Market Based Approaches to Mined Land Reclamation & Reforestation: A Technical Interactive Forum. May 15-16, 2002. Fort Mitchell, KY.
28. Huang, C., and G.D. Kronrad. 2002. Economic Analysis of Carbon Sequestration in Cherrybark Oak in the United States. The Proceedings of the Sixth International Conference on Greenhouse Gas Control Technologies. September 30-October 4, 2002. Kyoto, Japan.
 29. Kronrad, G.D., C. Huang, and R. Bates¹. 2002. The Cost of Sequestering Carbon on Private Forest Land in the Southern and Northern United States. The Proceedings of Future Energy Systems and Technology for CO₂ abatement. November 18-19, 2002. Antwerpen, Belgium. P. 277-289.
 30. Bates¹, R., G.D. Kronrad, C. Huang, and D. Vandendriesche. 2002. Use of the Forest Vegetation Simulator in Determining Optimal Rotation Settings for Abandoned Mined Lands in Appalachia. The Proceedings of the Second Forest Vegetations Simulator Conference. February 12-14, 2002. Fort Collins, Colorado. P. 196-199. (1 citation)
 31. Huang, C., and G.D. Kronrad. 2001. Economic Analysis of Carbon Sequestration on Reclaimed Mined Lands. Eighteenth Annual International Pittsburgh Coal Conference. December 4-7, 2001. Newcastle, Australia.
 32. Huang, C., and G.D. Kronrad. 2000. Optimal Financial Returns of Loblolly Pine in East Texas. Proceedings of Southern Forest Economics Working Group (SOFEW) 1999 Conference. April 18-20, 1999. Biloxi, MS. P. 9-12.

¹Graduate student

SCIENTIFIC PRESENTATIONS:

Principle Presenter and Lead Author

1. Huang, C., and Bagdon¹, B. 2015. Environmental and Health Benefits of Utilizing Woody Biomass For Electricity Generation in Arizona. The 13th Biennial Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ. October 5-8, 2015.
2. Huang, C., Finkral, A.J., Sorensen¹, C., and Kolb, T.E. 2013. Towards Full Economic Valuation of Forest Fuels-Reduction Treatments. The 12th Biennial Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ. September 16-19, 2013.
3. Huang, C., and Sorensen¹, C. 2011. The economic value of selling carbon credits from restored forests: a case study from the Navajo Nation's tribal forests. The 11th Biennial Cultural and Natural Resource Management on the Colorado Plateau: Science and Management at the Landscape Scale, Flagstaff, AZ, October 26, 2011
4. Huang, C., and Sorensen¹, C. 2011. Economic Analysis of Tradable Carbon Credits from the Navajo Nation's Tribal Forests. The Northern Arizona Chapter of the Society of American Foresters, Flagstaff, AZ, October 20, 2011.
5. Huang, C. 2010. Economics of Northern Bobwhite and Timber Management in the Southeast. The Economics of Forest Management Track at the 2010 SAF National Convention, Albuquerque, NM, October 27-31.
6. Huang, C. 2010. Carbon credits & international trade: Implications for forest management. 61st Western Forest Insect Work Conference (WFIWC), Flagstaff, AZ, April 5-8.

7. Huang, C. 2008. Non Traditional Forestry Products—Capturing Economic Capital. 24th Annual International Seminar on Forest Administration and Management (ISFAM), Flagstaff, AZ, October 13.
8. Huang, C. 2008. International Trade. 24th Annual International Seminar on Forest Administration and Management (ISFAM), Flagstaff, AZ, October 13.
9. Huang, C. 2007. Economic Opportunities and Challenges in Forest Management. 23rd Annual International Seminar on Forest Administration and Management (ISFAM), Flagstaff, AZ, October 10.
10. Huang, C. and Kronrad, G.D. 2006. Evaluating Planning Alternatives Concerning Financial Revenues, Carbon Sequestration and Potential Biofuel Production for Loblolly Pine Plantations in East Texas. 2006 Southern Forest Economics Workshop. March 23-24. Knoxville, Tennessee.
11. Huang, C. and Kronrad, G.D. 2005. The Effect of Carbon Revenues on the Rotation and Profitability of Loblolly Pine Plantations in East Texas. International Symposium: Faustmann and Optimal Stopping Times in Forestry and Beyond. April 20-22. Baton Rouge, Louisiana.
12. Huang, C., Kronrad, G.D, Bates¹ R. and M. Nentwich¹. 2005. A Comparison of Sequestering Carbon in Forests in the U.S. The 8th Electric Utilities Environmental Conference. January 24-26, 2005. Tucson, Arizona.
13. Huang, C. and Kronrad, G.D. 2004. Economic Analysis of Carbon Sequestration in Northern Red Oak in the United States. The 15th Global Warming International Conference. April 20-22. San Francisco, California.
14. Huang, C. and Kronrad, G.D. 2004. The Effects of Carbon Credit Payment Methods on a Carbon Trading Market. The 7th Electric Utilities Environmental Conference January 19-22, 2004. Tucson, Arizona.
15. Huang, C. and Kronrad, G.D. 2003. Economic Analysis of Sequestering Carbon in Forests Planted on Reclaimed Mined Land in the U.S. The 12th International Conference on Coal Science. November 2-6, 2003. Cairns, Queensland, Australia.
16. Huang, C., G.D. Kronrad, and S. Cheng¹. 2003. Sequestering Carbon in Forests in the Lower Mississippi River Valley in the United States: An Economic Analysis. The XIVth Global Warming International Conference. May 27-30, 2003. Boston, Massachusetts.
17. Huang, C., G.D. Kronrad, and S. Cheng¹. 2002. Carbon Sequestration in Cherrybark Oak Stands in the Lower Mississippi River Valley. USDA Carbon Symposium on Natural Resource Management to Offset Greenhouse Gas Emissions, November 19-21, Raleigh, NC.
18. Huang, C., G.D. Kronrad, and S. Cheng¹. 2002. Economic analysis of carbon sequestration in cherrybark oak in the United States. The Sixth International Conference on Greenhouse Gas Control Technologies, October 1-5, Kyoto, Japan.
19. Huang, C. and G. D. Kronrad. 2001. Carbon Sequestration can Benefit Forest Landowners and the Economy. Southern Forest Science Conference. November 26-28, Atlanta, Georgia.
20. Huang, C. and G. D. Kronrad. 2001. Economic Analysis of Carbon Sequestration on Reclaimed Mined Lands. Eighteenth Annual International Pittsburgh Coal Conference. December 4-7. Newcastle Australia.
21. Huang, C. and G.D. Kronrad. 1999. Carbon Sequestration in Loblolly Pine Plantations in Texas: Financial Compensation and Management Implication. International Union of

Forestry Research Organizations, October, Darmstadt, Germany.

Author, but not presenter

22. Young¹, J., Huang, C., Thode, A., and A. Agar. 2017. Modeling containment of resource benefit wildfires using a survival analysis. 7th International Fire Ecology and Management Congress, 2nd Applied Fire Science Workshop, Fire Vision 20/20: A 20-Year Reflection and Look into the Future, Orlando, Florida. November 28-December 2.
23. Hedgepeth¹, M, Huang, C., Dodson, B., Goodburn, J., Battaglia, M. and N. Anderson. 2017. Economic benefits of using woody biomass as renewable energy in the Southwest. SAF National Convention, Albuquerque, New Mexico. November 15-19, 2017. (poster)
24. Townsend¹, L., Dodson, B., Goodburn, J., Battaglia, M., Anderson, N., and C. Huang. 2017. Operational Costs & Ecological Effects of Biomass Harvest from Forest Restoration Treatments in the Southwest. SAF National Convention, Albuquerque, New Mexico. November 15-19, 2017. (poster)
25. Young¹, J., Huang, C., Thode, A., and A. Agar. 2017. Modeling Containment of Wildfires Managed for Resource Objectives. The 14th Biennial Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ. September 13, 2017.
26. Young¹, J., Huang, C., Thode, A., and A. Agar. 2016. The Economics of Managed Wildfires in the Restoration of Ponderosa Pine Forests of Northern Arizona. 2016 Beyond Hazardous Fuels: Managing Fire for Social, Economic, and Ecological Benefits, 3rd Southwest Fire Ecology Conference held concurrently with the 1st Applied Fire Science Workshop. Tucson, Arizona. November 28-December 2, 2016. (poster)
27. Bagdon¹, B., and C. Huang. 2015. Optimizing Ponderosa Pine Forest Management Regimes to Maximize the Production of Multiple Ecosystem Services. The 13th Biennial Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ. October 5-8, 2015.
28. Miller¹, Roy, Nielsen, Erik, and C. Huang. Linking Public Welfare and Payments for Ecosystem Services: Flagstaff Watershed Protection Project. 2014. ACES 2014: A Community on Ecosystem Services, Washington D.C. December 8th-12th, 2014. (poster)
29. Thomas Kolb, Peter Fule, Peter Friederici, Paul Beier, Carol Chambers, Ching-Hsun Huang, Annette McGivney, Kristen Waring. 2014. NIFA National Needs Fellowship Program: Translating Forest Science for Global Practitioners. The USDA National Needs Fellowship Program meeting. (poster)
30. Thomas Kolb, Peter Fule, Peter Friederici, Paul Beier, Carol Chambers, Ching-Hsun Huang, Annette McGivney, Kristen Waring. 2014. NIFA National Needs Fellowship Program: Translating Forest Science for Global Practitioners. The North American Colleges and Teachers of Agriculture Conference in Bozeman Montana. June 25-28, 2014 (poster)
31. Bagdon¹, B. and C. Huang. 2013. The Economic Value of Six Ecosystem Services on the Four Forests Restoration Initiative Area in Northern Arizona. The 12th Biennial Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ. September 16-19, 2013.
32. Waring, K.M., D.M. Reboletti¹, L.A.. Mork¹, C. Huang, R.W. Hofstetter, A.M. Garcia¹, P.Z. Fule, T.S. Davis¹. 2009. Modeling the impacts of two bark beetle species under warming climate in the southwestern U.S.A.: ecological and economic consequences.

- Western Forest Insect Work Conference, Spokane, WA. March 23-26, 2009. (Poster Presentation).
33. Waring, K.M., D.M. Reboletti¹, L.A.. Mork¹, M. Li, C. Huang, R.W. Hofstetter, A.M. Garcia¹, P.Z. Fule, T.S. Davis¹. 2008. Southern and Mexican pine beetles and climate change: An assessment of potential ecological and economic effects of a range shift. Ecological Society of America 93rd Annual Meeting. August 3-8, 2008, Milwaukee, WI.
 34. Waring, K.M., D.M. Reboletti¹, L.A.. Mork¹, C. Huang, R.W. Hofstetter, A.M. Garcia¹, P.Z. Fule, T.S. Davis¹. 2008. An Inconvenient Pest! Assessing the spread of a non-native bark beetle. National Center for Ecological Analysis and Synthesis Distributed Graduate Seminar Synthesis Meeting, February 4-8 2008, Santa Barbara, CA.
 35. Kronrad, G.D and C. Huang. 2005. Economic Analyses of Sequestering Carbon in Forests in the United States. The Chapman Conference on Science and Technology of Carbon Sequestration. January 16-20, 2005. San Diego, California.
 36. Kronrad, G.D., C. Huang and R. Bates¹. 2003. Enhancement of Terrestrial Carbon Sinks through Reclamation of Abandoned Mine Land in the Appalachian Region. June 2-5, 2003. Pittsburgh, Pennsylvania.
 37. Kronrad, G.D., C. Huang and S. Cheng¹. 2003. Economic Analysis of Sequestering Carbon in Green Ash Forests in the Lower Mississippi River Valley. The 6th Electric Utilities Environmental Conference. January 27-30, 2003. Tucson, Arizona.
 38. Bates¹, R., G.D. Kronrad and C. Huang. 2002. The Cost of Sequestering Carbon in Northern Red Oak Plantations on Abandoned Mined land in West Virginia. USDA Carbon Symposium on Natural Resource Management to Offset Greenhouse Gas Emissions, November 19-21, Raleigh, NC.
 39. Kronrad, G.D., and C. Huang. 2002. Enhancement of Terrestrial Carbon Sinks through Reclamation of Abandoned Mine Lands in the Appalachian Region. Presentation to National Energy Technology Laboratory, United States Department of Energy. October 22-24, Morgantown, WV.
 40. Kronrad, G.D., and C. Huang. 2002. Carbon Sequestration on Mined Lands. Texas Mining Conference. October 4, College Station, TX.
 41. Kronrad, G.D., and C. Huang. 2002. Economic Analysis of Sequestering Carbon in Forest Plantation on Mined Lands. The Fifth Electric Utilities Environmental Conference, January 21-28, Tucson, Arizona.
 42. Kronrad, G.D., S. Cheng¹ and C. Huang. 2002. Carbon Sequestration and the Carbon Credit Market. Surface Mine Reclamation Workshop, October, College Station, TX.
 43. Kronrad, G. D. and C. Huang. 2002. Forestry and the Carbon Credit Market. Texas Forestry Association Annual Meeting. Grapevine, TX.
 44. Bates¹, R., G.D. Kronrad, C. Huang, and Don Vandendriesche. 2002. Use of the Forest Vegetation Simulator in Determining Optimal Rotation Settings for Abandoned Mined Lands in Appalachia. Second Forest Vegetations Simulator Conference. Fort Collins, CO.
 45. Kronrad, G.D., and C. Huang. 2002. Profitability of Loblolly Pine Management. Texas-Louisiana Longleaf Pine Project Development Workshop. Nacogdoches, TX.
 46. Kronrad, G.D., and C. Huang. 2001. The Cost of Sequestering Carbon in Forests of the Southern United States. The XIIth Global Warming International Conference & Expo, The Year 2001 Conference, April 8-11, Cambridge, UK
 47. Kronrad, G.D., and C. Huang. 2001. Intensive Pine Plantation Management: Profitability of Timber Management and Carbon Sequestration. Florida Society of American Foresters

- Annual Meeting, Pensacola, FL.
48. Morton¹, J., and G.D. Kronrad, C. Huang. 2001. Carbon Sequestration- The Answer to a Global Problem. Texas Mining Conference. Dallas, TX.
 49. Kronrad, G.D., and C. Huang. 2001. Integrating Carbon into Forest Management Planning. Society of American Foresters Spring Symposium. April 24-25, Gainesville, FL.
 50. Kronrad, G.D., and C. Huang. 2001. Intensive Pine Plantation Management: Profitability of Timber Management and Carbon Sequestration. DuPont Pharmaceuticals Company. August 22-24, Pensacola, FL.
 51. Kronrad, G.D., and C. Huang. 2001. The Cost of Sequestering Carbon on Private Forest Lands. 4th Iberian Forest Congress. November 30, Evora, Portugal
 52. Kronrad, G.D., and C. Huang. 2001. The Effects of a Carbon Credit Market and Sequestration Policies on Private Forestry in the Southern United States. Global Initiatives and Public Policies: First International Conference on Private Forestry in the 21st Century, March, Atlanta, Georgia.
 53. Kronrad, G.D., and C. Huang. 2000. Sequestering Carbon in Forests: Results from Texas and Future Research. Los Alamos National Laboratory Conference on Carbon Sequestration, February, Santa Fe, NM.
 54. Kronrad, G.D., and C. Huang. 2000. Recent Developments and Proposals for Carbon Sequestration Research. Department of Energy & Department of the Interior Joint Conference, March, Shepherdstown, WV.
 55. Kronrad, G.D., and C. Huang. 2000. Financially Optimal Thinning and Final Harvest Schedules for Timber Production and Carbon Sequestration. 2000 Symposium on Systems Analysis in Forest Resources, September, Aspen, CO.
 56. Kronrad, G.D., and C. Huang. 2000. Carbon Sequestration: Economic Analysis of Carbon Storage in Loblolly Pine Plantations in East Texas. Surface Mine Reclamation Workshop, October, College Station, TX.
 57. Kronrad, G.D., and C. Huang. 2000. Nonindustrial Private Forest Landowners can Profit from a Carbon Credit Market. Society of American Foresters National Convention, November, Washington, DC.
 58. Kronrad, G.D., and C. Huang. 2000. The Profitability of Loblolly Pine Management. National Landowner Association Meeting, March, San Antonio, TX.
 59. Kronrad, G.D., and C. Huang. 2000. Profitability of Forest Management in East Texas. Forest Profitability Workshop, September, Nacogdoches, TX.
 60. Kronrad, G.D., and C. Huang. 2000. Optimizing Profitability in Pine Plantation Management. Texas Forestry Association Annual Conference: Who Leads the Change? October, Nacogdoches, TX.
 61. Kronrad, G.D., and C. Huang. 1999. Sequestering Carbon in Loblolly Pine Plantations. Forest Resource Institute Research Conference, August, Nacogdoches, TX.
 62. Kronrad, G.D., and C. Huang. 1999. Carbon Sequestration on Forestland. Department of the Interior Conference on Carbon Sequestration, December, Washington D.C.
 63. Kronrad, G.D., and C. Huang. 1999. Optimal Financial Returns of Loblolly Pine in East Texas. Southern Forest Economics Working Group Conference, March, Biloxi, MS.

¹Graduate student

SPECIALIZED TRAINING:

Remsoft Open Training, Fredericton, Canada, June 12-14, 2017

IMPLAN Training at MCRSA, Charlotte, North Carolina, June 8-9, 2016

USDA Forest Service (Region 3) Project Level Economic Training for Range, Williams, AZ,
April 24-25, 2012

TEACHING EXPERIENCE:

Courses Taught at NAU from Spring 2008 to present

Semester/Year	Number	Name	Credits	Students
Spring 2018	FOR 323, 324 and 325	Semester B coordinator	1	31
Spring 2018	FOR 324	Forest Economics (lectures and labs)	1.5	31
Spring 2018	FOR 324	Land Management Forum	0.1	31
Spring 2018	FOR 325	Forest Management (lectures and labs)	2.3	31
Spring 2018	FOR 101 (1st session)	Forestry Introduction	3	30
Spring 2018	FOR 101 (2nd session)	Forestry Introduction	3	30
Spring 2018	FOR 485	Undergraduate Research	3	1
Fall 2017	FOR 101 (1st session)	Forestry Introduction	3	25
Fall 2017	FOR 101 (2nd session)	Forestry Introduction	3	27
Fall 2017	FOR 485	Undergraduate Research	3	1
Spring 2017	FOR 323, 324 and 325	Semester B coordinator	1	33
Spring 2017	FOR 324	Forest Economics (lectures and labs)	1.5	32
Spring 2017	FOR 324	Land Management Forum	0.1	32
Spring 2017	FOR 325	Forest Management (lectures and labs)	2.3	33
Spring 2017	FOR 101 (1st session)	Forestry Introduction	3	50
Spring 2017	FOR 101 (2nd session)	Forestry Introduction	3	53
Fall 2016	FOR 101 (1st session)	Forestry Introduction	3	50
Fall 2016	FOR 101 (2nd session)	Forestry Introduction	3	49
Spring 2016	FOR 323, 324 and 325	Semester B coordinator	1	38
Spring 2016	FOR 324	Forest Economics (lectures and labs)	1.5	37
Spring 2016	FOR 324	Land Management Forum	0.1	37
Spring 2016	FOR 325	Forest Management (lectures and labs)	2.5	38
Spring 2016	FOR 101 (1st session)	Forestry Introduction	3	52
Spring 2016	FOR 101 (2nd session)	Forestry Introduction	3	53
Fall 2015	FOR 101 (1st session)	Forestry Introduction	3	44
Fall 2015	FOR 101 (2nd session)	Forestry Introduction	3	51
Spring 2015	FOR 323W	Forest Economics (lectures and labs)	1.5	39
Spring 2015	FOR 325	Forest Management (lectures and labs)	2.5	39
Spring 2015	FOR 323W	Junior Proposal Writing	1	9
Spring 2015	FOR 101 (1st session)	Forestry Introduction	3	53
Spring 2015	FOR 101 (2nd session)	Forestry Introduction	3	54
Fall 2014	FOR 101 (1st session)	Forestry Introduction	3	37

Fall 2014	FOR 101 (2nd session)	Forestry Introduction	3	49
Spring 2014	FOR 324	Forest Economics (lectures and labs)	1.5	31
Spring 2014	FOR 326	Forest Management (lectures and labs)	2.5	31
Spring 2014	FOR 323W	Junior Proposal Writing	1	6
Spring 2014	FOR 101 (2nd session)	Forestry Introduction	3	55
Fall 2013	On sabbatical			
Spring 2013	FOR 324W	Forest Economics (lectures and labs)	1.5	49
Spring 2013	FOR 326W	Forest Management (lectures and labs)	2.5	50
Spring 2013	FOR 323W	Junior Briefing Paper Writing	0.85	12
Spring 2013	FOR 101 (2nd session)	Forestry Introduction	3	54
Fall 2012	FOR 101 (1st session)	Forestry Introduction	3	48
Fall 2012	FOR 500	Ecosystem Science and Management Principles	3	6
Spring 2012	FOR 101 (1st session)	Forestry Introduction	3	48
Spring 2012	FOR 101 (2nd session)	Forestry Introduction	3	50
Spring 2012	FOR 324W	Forest Economics (lectures and labs)	1.5	34
Spring 2012	FOR 326W	Forest Management (lectures and labs)	2.5	34
Fall 2011	FOR 101 (1st session)	Forestry Introduction	3	45
Fall 2011	FOR 101 (2nd session)	Forestry Introduction	3	46
Fall 2011	FOR 493/593	Natural Resource Economics (on-line)	3	9
Spring 2011	FOR 101 (2nd session)	Forestry Introduction	3	50
Spring 2011	FOR 324W	Forest Economics (lectures and labs)	1.5	37
Spring 2011	FOR 326W	Forest Management (lectures and labs)	2.5	37
Fall 2010	FOR 101 (2nd session)	Forestry Introduction	3	49
Fall 2010	FOR 493/593	Natural Resource Economics (in-person)	3	18
Fall 2010	FOR 505	Forestry Seminar Series	1	12
Spring 2010	FOR 324W	Forest Economics (lectures and labs)	1.5	26
Spring 2010	FOR 326W	Forest Management (lectures and labs)	2.5	26
Fall 2009	FOR 500	Ecosystem Science and Management Principles	3	8
Fall 2009	FOR 505	Forestry Seminar Series	1	19
Spring 2009	FOR 324W	Forest Economics (lectures and labs)	1.5	35
Spring 2009	FOR 326W	Forest Management (lectures and labs)	2.5	35
Spring 2009	FOR 505	Forestry Seminar Series	1	8
Fall 2008	FOR 500	Ecosystem Science and Management Principles	3	7
Fall 2008	FOR 493/593	Natural Resource Economics (in-person)	3	5
Fall 2008	FOR 505	Forestry Seminar Series	1	15
Spring 2008	FOR 324W	Forest Economics (lectures and labs)	1.5	22
Spring 2008	FOR 326W	Forest Management (lectures and labs)	2.5	22

Spring 2008	FOR 505	Forestry Seminar Series	1	5
Total			153.75	2,244

New Courses Developed:

FOR 324W Forest Economics

FOR 326W Forest Management

FOR 493/593 Natural Resource Economics (in-person and on-line courses)

FOR 500 Ecosystem Science and Management Principles.

Courses Taught at Texas A&M University-Kingsville from Fall 2006 to Spring 2007

- AGBU 2317 Agricultural Economics (3 credits)
- AGBU 3380 Environmental Economics (3 credits)
- AGBU 4325/5390 Range Economics (undergraduate and graduate) (3 credits)
- AGECON 2223 International Agribusiness Marketing (3 credits)

New Courses Developed:

AGBU 2317 Agricultural Economics

AGBU 3380 Environmental Economics

AGBU 4325/5390 Range Economics

UNDERGRADUATE STUDENT ADVISOR

Jeremy Ulrey, B.S., School of Forestry, Northern Arizona University	2011-2012
Colin Towne, B.S., School of Forestry, Northern Arizona University	2017-2018
McKenna Hedgepeth, B.S., School of Forestry, Northern Arizona University	2017-2018

GRADUATE STUDENT ADVISOR

Jesse Young, Ph.D. School of Forestry, Northern Arizona University	2015-present
Howard Hoyt, M.F. School of Forestry, Northern Arizona University	2013-2015
Roy Miller, M.S. (Co-adviser Erik Nielsen) Environmental Science and Policy, Northern Arizona University	2012-2015
Ben Bagdon, Ph.D., School of Forestry, Northern Arizona University	2011-2015
Christian Larson, M.F., School of Forestry, Northern Arizona University	2011-2012
Tibor Vegh, M.S., School of Forestry, Northern Arizona University	2008-2011
Ryan Fitch, Ph.D., School of Forestry, Northern Arizona University	2009-2010
Haydee Hampton, Ph.D. (Co-adviser Pete Fulé), School of Forestry, Northern Arizona University	2009-2010
Erika Pitzer, M.S., College of Agriculture and Human Sciences, Texas A&M University-Kingsville	2006-2007

GRADUATE STUDENT COMMITTEE MEMBER

Marvin Victor, M.F., (Fulé) School of Forestry, Northern Arizona University	2013-2014
Kristan Peterson, M.F., (Lee) School of Forestry, Northern Arizona University	2011-2012
Zak Thomas, M.S., (Waring) School of Forestry, Northern Arizona University	2011-2012
Jeff Oldson, M.F., (Finkral), School of Forestry, Northern Arizona University	2010-2011
John Kester, M.A., (Lemley) College of Social and Behavioral Sciences, Northern Arizona University	2010-2011
Haydee Hampton, Ph.D., (Fulé) School of Forestry, Northern Arizona University	2009-2011

Lee Lawrence, M.F., (Finkral) School of Forestry, Northern Arizona University	2009-2010
Chris Sorensen, M.S., (Finkral) School of Forestry, Northern Arizona University	2008-2010
Gary Snider, Ph.D., (Finkral) School of Forestry, Northern Arizona University	2008-2009
Gavin Corral, M.S., (Finkral) School of Forestry, Northern Arizona University	2007-2009
Daniel Spethmann, Ph.D., (Kronrad) College of Forestry and Agriculture Stephen F. Austin State University	2004-2006
Aaron Floyd, M.S., (Kronrad) College of Forestry and Agriculture, Stephen F. Austin State University	2004-2006
Shiaolin Cheng, M.S., (Kronrad) College of Forestry and Agriculture, Stephen F. Austin State University	2003-2005
Cynthia Blake, M.S., (Kronrad) College of Forestry and Agriculture, Stephen F. Austin State University	2002-2004
Jason Morton, M.S., (Kronrad) College of Forestry and Agriculture, Stephen F. Austin State University	2002-2004
Stan Cook, M.F., (Kronrad) College of Forestry and Agriculture, Stephen F. Austin State University	2002-2003
Leslie Garrison, M.S., (Kronrad) College of Forestry and Agriculture, Stephen F. Austin State University	2001-2003
Richard Bates, M.S. and Ph.D., (Kronrad) College of Forestry and Agriculture, Stephen F. Austin State University	2000-2005

SERVICE

Professional Service Activities

- 2015-2016 Associate editor of forest management for *Forest Science*.
Reviewer of professional papers submitted to: *Forest Science, Ecological Modeling, Carbon Balance and Management, the Canadian Journal of Forest Research, the Journal of Forest Economics, Agroforestry Systems, Forest Policy and Economics, Forest Ecology and Management, Scientific Research and Essays, Sustainability, Journal of Forest Economics, Southern Journal of Applied Forestry (SJAF)*,
- 2013 Appointed by the Secretary of Agriculture to be a member of the Collaborative Forest Restoration Program (CFRP) Technical Advisory Panel from 2013-2016. The CFRP is a Federal Advisory Committee pursuant to the Community Forest Restoration Act of 2000 and the Federal Advisory Committee Act. Every year, the Panel was responsible for reviewing more than 30 lengthy and comprehensive proposals and discussed every proposal in great detail in Albuquerque, NM for a week. The time devoted to serve on this Panel was approximately 100 hours per year.
- 2013 Moderator of the 2013 Culture and Leisure Symposium: Emerging Challenges in a Global Era at National Taitung University in Taitung, Taiwan.
- 2013 Reviewer of the proposal of a textbook, "Forest Plans of North America", by Jacek Siry, Pete Bettinger, Krista Merry, Donald Grebner and Kevin Boston.
- 2012 As a full panelist serving on the FY 2012 Food and Agricultural Sciences National Needs Graduate and Postgraduate Fellowship (NNF) Grants Program Review Panel for the USDA National Institute of Food and Agriculture (NIFA). A full panelist was required to review lengthy, comprehensive, multi-university collaboration proposals and provide detailed comments prior to the conference calls. The time devoted to serve on this Panel was approximately 60 hours in 2012.

- 2012 Selected to review proposals submitted to the 2011 NASA Applied Science RFP titled “Wildland Fires”
- 2011 As a full panelist serving on the FY 2011 Higher Education Challenge Grants Program Review Panel for the USDA National Institute of Food and Agriculture (NIFA). A full panelist was required to review lengthy, comprehensive, multi-university collaboration proposals and provide detailed comments prior to the meeting. The time devoted to serve on this Panel was approximately 70 hours in 2011.
- 2011 Nominee for serving on an EPA Science Advisory Board (SAB) Panel on Accounting for Carbon Dioxide (CO₂) Emissions from Biogenic Sources
- 2007 Reviewer of a textbook, “Managing the Environment” by Barlowe
- 2006 External project proposal reviewer for Forest and Wildlife Research Center at Mississippi State University
- 2007-2008, 2011-2012 Member of Society of American Foresters (SAF)
- 1999-present Member of the International Society of Forest Resource Economics, (ISFRE, formally Southern Forest Economics Workers, SOFEW)

NAU School, College and University Service

- 2017 Interim Executive Director of the School of Forestry
- 2016-2017 Member of the Search Committee for Assistant Professor of Forest Conservation Genetics
- 2016-2017 CEFNS Promotion and Tenure Committee
- 2017 Invited speaker at Women in Natural Resources event
- 2016-2017 Member of NAU Teaching Academy
- 2016-2017 Member of the University Undergraduate Committee (UUC)
- 2016-2017 School of Forestry Curriculum Committee
- 2016-2017 Member of the Ad Hoc Adjunct Faculty Status Review Committee
- 2009-present Member of the SWFSC Landscape Committee
- 2008-2011 Member of the Ad Hoc Adjunct Faculty Status Review Committee
- 2015-2016 School of Forestry Curriculum Committee
- 2015-2016 CEFNS Promotion and Tenure Committee
- 2015-2016 Member of the University Curriculum Committee
- 2015-2016 Member of Lighting Committee for Rooms 17 and 18
- 2015-2016 Member of Faculty Status Committee
- 2011-2016 Member of the Information Technology Committee
- 2014-2016 Member of Ethnic and Culture Diversity Committee
- 2014-2015 Member of Faculty Status Committee
- 2014-2015 Member of the Mission Research Board
- 2013 Author of “Blending Forest Economics and Natural Resource Management for a Safer and More Sustainable World” published in NAU Global, Spring 2013.
- 2012-2015 Member of the CEFNS Curriculum Committee
- 2012-2014 Forestry Library Liaison
- 2011-present Judge for College of Engineering, Forestry & Natural Sciences (CEFNS) Undergraduate Research and Design Symposium (UGRADS)
- 2011-2012 Member of the Search Committee for Instructors of Mathematics, Mathematics and Statistics Department
- 2010-2013 Member of the Annual Review Committee

2008-2014 Presented scholarships at Honors Convocation
2009-2012 Member of the Faculty Grants Committee
2008-2009 Member of the Mission Research Board
2008-2012 Member of the Ad Hoc Adjunct Faculty Status Review Committee
2007-2010 Forestry Graduate Student Association faculty advisor

Community Service

- Attended Landscape Restoration Working group for the Four Forest Restoration Initiative (4FRI) as a forest economics/utilization advisor and provided comments regarding the outline of 4FRI Utilization, Economics and Ecosystem Services in 2010.
- Provided assistance in the calculation of herbage production for range management to the 4FRI team in January 2012.
- Gave a talk to the Boy Scouts of America in their badges series on citizenship in the world, teaching the boy scouts about different world organizations and the role government plays globally on February 29, 2012.
- Provided forest economics and forest management advice to KOMAZA, “a non-profit social enterprise committed to reducing rural poverty by connecting smallholder farmers with high-value markets”, on April 9, 2012