
Dr. Guy L. Pinjuv

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Education:

Ph.D., Forestry, University of Canterbury, 2006. Dissertation: Hybrid Forest Modeling of *Pinus radiata* D. Don in Canterbury, New Zealand.

M.S., Forestry, Northern Arizona University, 2000. Thesis: Economic analysis of ecological restoration treatments in Flagstaff. Arizona's wildland-urban interface. GPA: 4.0 (summa cum laude)

B.A., Physics, University of Montana, 1998. University of Montana, Missoula. GPA: 3.4

B.S., Forestry, University of Montana, 1997. University of Montana, Missoula. GPA: 3.0.

Experience:

Forestry Research Consultant, Ptarmigan Forestry and Carbon Consulting, Portland, OR 97205. From 10/ 2007 to present. Working on a collaborative study with the US forest Service and the University of New Hampshire, funded by NASA . The project involves calibrating a bridging model to predict forest growth and carbon sequestration under a global climate change. Bridging model can be empirically fit, or can run from physiological parameters. The model is being parameterized to two ecosystems, a Northern eastern hardwoods and sub-alpine Rocky Mountain forest type. Dr. Mark Ducey, and Dr. Harry Valentine are collaborators.

Ph.D. Forest Research Assistant, University of Canterbury, Private Bag 4800, Christchurch New Zealand. From 08/ 2003 to 08/ 2006. Developed both hybrid and classical growth and yield models used to predict plantation growth, carbon sequestration, and canopy leaf area index for plantation grown *Pinus radiata* in New Zealand. Compared a range of modeling approaches, from the physiological model 3PG (Landsberg and Waring 1999) through to traditional

growth and yield, using permanent sample plot data from Selwyn Plantation Board Ltd (published in Forest Ecology and Management). Dr. Joe Landsberg, Dr. Mike Watt, and Dr. Euan Mason were co-supervisors.

Research Forester: USDA Forest Service, Pacific Northwest Research Station, Roger Fight (supervisor), 333. SW First Avenue, Portland OR 97204. From 01/2001 to 08/2003. Participated in planning and conducting studies related to financial evaluation of production and management of commodities from forestlands, participated in development of software to transfer analysis technology to foresters and planners, participated in preparation of reports and manuscripts for publication relating to studies and resulting software. Made presentations of findings demonstrating software products developed to planners and foresters who were potential users of the information and software (work published in Gen. Tec. Reports and presented in a U.S Congressional Session).

Forest Economic Analyst: USDA Forest Service, Pacific Northwest Research Station, Roger Fight (supervisor), 333. SW First Avenue, Portland OR 97204. From 06/2000 to 12/2000. Developed an economic model and conceptual flow chart of the production operations of an integrated small wood processor in Eagar AZ. Instructed employees at Alpine Trucking Company on its use as an economic decision making tool (published in Forest Products).

Forest Research Assistant: Northern Arizona University, School of Forestry, P.J. Daugherty (supervisor), P.O. Box 15018 Flagstaff AZ 86001-5018. From 01/1999 to 10/2001. Completed two studies on the economic issues associated with ecological restoration of ponderosa pine forests. The first was a cost estimation of stump to truck costs of restoration treatments in the southwest. The second was a theoretical application of an economic decision making tool used for optimum harvesting method selection (published in general technical report).

Seasonal Forester: Colorado State Forest Service, John Grieve (supervisor), Silverthorne CO. From 08/1998 to 12/1998. Collected field survey data for a mountain pine beetle study in high alpine areas of the Rocky Mountains of Colorado.

Research Intern: Montana Department of State Lands and the University of Montana Department of Forestry, Alan McQuillan (supervisor), Missoula MT. From 09/1997 to 06/1998. Studied fractal patterns in forests and measured fractal dimensions on dust plots representing forest stands as seen from aerial photographs. Aided in mathematical understanding and theory.

Timber Cruiser: True North Resource Service, Paul Jensen (supervisor), Missoula MT. 59802. From 06/1997 to 09/1997. Collected field inventory data on privately owned forestland in Montana and Idaho.

Physics Lab Instructor: University of Montana Department of Physics, Jim Jacobs (supervisor), Missoula MT. 59801. From 01/1997 to 05/1998. Taught three lab classes of first and second semester physics covering classical mechanics and electronics.

Physics Teaching Assistant: University of Montana Department of Physics, Jim Jacobs (supervisor), Missoula MT. 59801. From 05/1996 to 01/1997. Graded

physics labs and exams for first and second semester physics covering classical mechanics and electronics.

Academic Honors and Grants Awarded:

Ph.D. Canterbury Scholarship, University of Canterbury, Christchurch New Zealand, 2003.

T.W. Adams Scholarship for Academic Excellence in Forestry. Selwyn Plantation Board Ltd., Christchurch New Zealand, 2003.

University of Canterbury International Postgraduate Award. University of Canterbury, Christchurch New Zealand, 2004.

Graduate Fellowship, Northern Arizona University, Flagstaff Arizona, 1998.

Forestry research Grant. USDA Forest Service, Rocky Mountain Research Station contract No. RMRS-98159-RJVA-01, 1998.

List of Publications (peer reviewed):

Pinjuv. G.L., Mason, E.G., Watt, M., 2006. Quantitative validation and comparison of a range of forest growth model types. *Forest Ecology and Management*. 236: 37-46.

Pinjuv. G.L., Mason, E.G., Watt, M., 2006. Canopy Leaf Area Index Models for Plantation Grown *Pinus radiata* D. Don. *New Zealand Journal of Forestry Sciences* (in press).

Fight. R.D., Pinjuv, G.L., Daugherty, P.J., 2004. Small-diameter wood processing in the southwestern United States: An economic case study and decision analysis tool. *Forest Products Journal* 54(5):85-89.

Barbour, R.J., Fight, R. D., Christensen, G.A., Pinjuv, G.L., Nagubadi, R.V., 2004. Thinning and prescribed fire and projected trends in wood product potential, financial return, and fire hazard in Montana. Gen. Tech. Rep. PNW-GTR-606. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 78 p.

Barbour, R.J., Fight, R. D., Christensen, G.A., Pinjuv, G.L., Nagubadi, R.V., 2004. Thinning and prescribed fire and projected trends in wood product potential, financial return, and fire hazard in New Mexico. Gen. Tech. Rep. PNW-GTR-605. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 48 p.

Conference Proceedings:

Pinjuv, G., Daugherty, P.J., Fox, B.E., 2001. Cost / Effectiveness analysis of Ponderosa pine ecosystem restoration projects in Flagstaff Arizona's wildland urban interface. In: Vance, Regina K.; Edminster, Carleton B.; Covington, W. Wallace; Blake, Julie A. comps. 2001. Ponderosa pine ecosystems restoration and conservation: steps toward stewardship; 2000 April 25-27; Flagstaff, AZ. Proceedings RMRS-P-22. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station.

Fried, J.S., R.J. Barbour, R. Fight, G. Christensen, and G. Pinjuv. 2003. Small Diameter Timber Alchemy: Can Utilization Pay The Way Towards Fire Resistant Forests? In: Narog, M. G., technical coordinator. Proceedings of the 2002 fire conference on managing fire and fuels in the remaining wildlands and open spaces of the Southwestern United States; 2002 December 2-5; San Diego, CA. Gen. Tech. Rep. PSW-GTR-189. Albany, CA: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture.

Fried, J. S., Christensen, G., Weyerman, D., Barbour, R.J., Fight, R., Hiserote, B., Pinjuv, G. 2005 Modeling opportunities and feasibility of siting wood-fired electrical generating facilities to facilitate landscape-level fuel treatment with FIA BioSum. Systems Analysis in Forest Resources: proceedings of the 2003 symposium : October 7-9, 2003, Stevenson, Washington. Portland, Or. : U.S. Dept. of Agriculture, Forest Service, Pacific Northwest Research Station, 2005: p. 195-204. (General technical report PNW ; GTR-656).

Presentations:

IUFRO International Scientific Conference 2007, Forest Growth and Timber Quality, Portland Oregon. Crown Models and Simulation Methods for Sustainable Forest Management. Hybrid Forest Modelling in New Zealand's Canterbury Region. Guy Pinjuv.

Te Papa Museum of Natural History, Wellington, New Zealand. Absolutely Positively Forests, 2006. Hybrid forest modeling in the Canterbury Region. Guy Pinjuv

Western Forest Economists 2002. Cost effectiveness analysis, used as a tool for harvest method selection in ecological restoration and fuel reduction treatments. Guy Pinjuv.

Forest Products Society. Smallwood 2001. Albuquerque, New Mexico. Small Diameter Wood Processing in the Southwestern United States: An Economic Case Study and Decision Analysis Tool Roger D. Fight, Guy L. Pinjuv, and Peter J. Daugherty.

Western Forest Economists 2001. A decision analysis tool and production flow chart for a small diameter processor in Eagar Arizona. Guy Pinjuv.

Ponderosa pine ecosystems restoration and conservation: steps toward stewardship, 2000. Northern Arizona University, Flagstaff AZ. Cost / Effectiveness analysis of Ponderosa pine ecosystem restoration projects in Flagstaff Arizona's wildland urban interface. Pinjuv, G., Daugherty, P.J., Fox. B.E.

References:

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