

Malcolm North

Forestry Sciences Lab
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Personal Data

Born: July 11, 1957
Married: May 1991, two children
Licensed Pilot
Certified in CPR and First Aid Training
Activities: mountain climbing, hiking and backcountry skiing.

Education

A.B., 1979 Vassar College, Poughkeepsie, NY. English major. Thesis: "King Lear: The painful birth of a selfless humanity".
M.F.S., 1988 Yale University, School of Forestry and Environmental Studies, New Haven, CT. Forest Ecology Division.
Master's Thesis: "Old-growth research areas of the Department of Natural Resources". Major Adviser: Dr. John Gordon.
Ph.D., 1993 University of Washington, College of Forest Resources, Seattle, WA. Forest Ecosystems Analysis Division.
Dissertation title: "Stand structure and truffle abundance associated with the northern spotted owl (*Strix occidentalis caurina*)". Major Adviser: Dr. Jerry Franklin.

Professional Experience

Presently Research Plant Ecologist, Pacific Southwest Range and Experiment Station, U.S. Forest Service and Associate in Forest Ecology, Department of Environmental Horticulture, U.C. Davis.
1993-1995 Post-Doctorate Research Associate, College of Forest Resources, University of Washington. Research, analysis and publication of articles on spotted owls and hypogeous fungi. Initiated and coordinated research on stand-level forest canopy structure at the Wind River Canopy Crane project in Carson Washington.
1989 Research Consultant, The Wilderness Society. Assisted in development of an old-growth forest inventory of the Olympic National Forest.
1987-1988 Natural Resources Aid, Washington State Department of Natural Resources, Forest Land Management Division. Using GIS and inventory databases, selected old-growth natural research areas in western Washington. Developed the DNR's first old-growth inventory. Collected stand structure information on the research areas and published a report.
1984-1985 Forest Crafts Technician, Washington State Department of Natural

Resources, Northwest Area.

Organized the Washington Conservation Corp program for the Northwest Regional Division. Hired, trained and supervised disadvantaged youth in tree planting, thinning, fire fighting, timber sales and inventory, and other forestry practices. Provided job training and employment search skills.

1981-1983 Log Home Designer, Republic, WA. Designed and built log homes for recreation property owners.

1979 Choker setter and Chaser, Fletcher and Fletcher Logging Co., Forks, WA. Logging work on the cables of high-lead, skyline and skidder operations.

Professional Societies

American Association for the Advancement of Science

American Institute of Biological Sciences

Ecological Society of America

Society for Conservation Biology

Wildlife Society

Honors and Awards

University of Washington Tuition Scholarship

University of Washington Teaching Assistantship Award

University of Washington Research Assistant Appointment

Yale University Graduate Scholarship

Yale University Teaching Assistantship Award

Nicholas Spengler Graduate Study Fellowship (from Vassar College)

Research Support

1998 Forest Service Forest Health Technology Enterprise Team, NE Station, Competitive Grant. Title: "Impacts of fire and thinning on truffle abundance and northern flying squirrel populations". (\$51,000)

1996 PSW Forest Service Research Internal Competitive Grant. Title: "Stand structure and soil conditions associated with truffle abundance". (\$19,917)

1995 PSW Forest Service Research Internal Competitive Grant. Title: "Developing a measure of stand-level canopy structure". (\$17,600)

1992 Ecosystem Competitive Grant, University of Washington Title: "Animal consumption of hypogeous sporocarps in Pacific Northwest Forests". (\$5,000)

1990 Ecosystems Research Award, College of Forest Resources, University of Washington. Title: "Stand structure of northern spotted owl habitat". (\$2,500)

1986 Andrew Mellon Foundation Grant, Yale University. Title: "Location and reservation of old-growth forests on Washington State's Department of Natural Resource's lands". (\$3,000)

Scientific Publications and Contributions

Van Pelt, B. and M. North. In Press. Testing a ground-based canopy model using the Wind River Canopy Crane. Selbyana.

North, M.P. and J. Greenburg. 1998. Stand conditions associated with truffle abundance in western hemlock/Douglas-fir forests. Forest Ecology and

Management 112:55-66.

North, M.P., J. Trappe, and J. Franklin. 1997. Standing crop and animal consumption of fungal sporocarps in Pacific Northwest forests. *Ecology* 78: 1543-1554.

North, M.P. and J. Reynolds. 1996. Microhabitat analysis using radio telemetry locations and polytomous logistic regression. *Journal of Wildlife Management* 60(3): 639-653.

North, M.P., J. Chen, G. Smith, and L. Krakowiak. 1996. Initial response of understory plant diversity and overstory tree diameter growth to a green tree retention harvest. *Northwest Science* 70(1): 24-35.

Van Pelt, B. and M. P. North. 1996. Measuring canopy structure in Pacific Northwest old-growth forests using a stand-level crown model. *Northwest Science* 70 (special issue): 15-30.

North, M.P. 1995. Virgin forests and endangered species: The northern spotted owl and the Mt. Graham red squirrel.

Encyclopedia of Environmental Biology. Invited chapter. Academic Press. San Diego, CA., pp. 447-461.

North, M.P. and J.M. Trappe. 1994. Small mammal exclosures for studies of hypogeous fungi. *Mycologia* 86:583-585.

North, M.P. and J.F. Franklin. 1992. Stand structure of multi-age spotted owl habitat. *The Northwest Environmental Journal*. 8: 229-230.

North, M.P. and J.F. Franklin. 1990. Post-disturbance legacies that enhance biological diversity in a Pacific Northwest old-growth forest. *The Northwest Environmental Journal* 6: 427-429.

North, M.P. 1990. Old-growth research areas of the Department of Natural Resources. Washington State Dept. of Natural Resources Publication 256, 59pp.

Internet Publication

Peterson, G., S. E. Pope, G. A. De Leo, M. A. Janssen, J. R. Malcolm, J. M. Parody, G. Hood, and M. North. 1997.

Ecology, Ethics and Advocacy. *Conservation Ecology* 1(1). Invited participant in the inaugural issue of an internet publication and forum discussion.

(<http://www.ecologyandsociety.org/vol1/iss1/art17/>)

Other Publications

Book review of *Uncommon Ground: Toward Reinventing Nature*. William Cronon editor. *Conservation Biology* 10(3):688-690.

Teaching Experience and Graduate Students

1998 Advisor and providing support for Marc Meyer, doctoral student of Dr. Doug Kelt, University of California, Davis, CA. Dissertation work on flying squirrels and truffles.

1997 Major advisor and committee member for Brian Oakley, doctoral student, College of Forest Resources, University of Washington, Seattle, WA. Dissertation work on the Teakettle experiment. Dr. Jerry Franklin is chair of the committee.

1998 Advisor and Committee member for Elizabeth Lyons, The Evergreen State

College, Olympia, WA. MES awarded 4/98. Master Thesis: "Influence of canopy structure on epiphyte biomass and diversity in a Pacific Northwest Old-Growth forest".

1991 Assistant Instructor. University of Washington. Course: "Structure and Function of Forest Ecosystems".

Graduate forest ecology class. Principle instructor: Dr. Jerry Franklin.

1988 Teaching Assistant. Yale University. Course: "Environmental History".

Organized and taught two weekly seminars for Dr. William Cronon. Nominated for Teaching Assistant of the Year at Yale University.