

Nicholas J. Reo

University of Michigan
School of Natural Resources and Environment
440 Church St., Ann Arbor, Michigan 48109
(734) 763-8648 reon@umich.edu

EDUCATION

- Ph.D. Michigan State University- May 2010
Center for Systems Integration and Sustainability
Department of Fisheries and Wildlife
Dissertation Title: *Ecological & Human Dimensions of Tribal and State Natural Resource Management* Major Professor: Jianguo “Jack” Liu
- Master of Science University of Michigan, Ann Arbor - December 2002
School of Natural Resources and Environment
Resource Planning Concentration
Group Masters Project Title: *Upper Manistee River Watershed Conservation Plan: prepared for the Grand Traverse Regional Land Conservancy*
Masters Project Advisor: Donna Erickson
- Bachelor of Science University of Michigan, Ann Arbor - Cum Laude, May 1997
School of Natural Resources and Environment
Environmental Policy and Behavior Concentration
Study Focus: ecosystems and plants of Michigan

PROFESSIONAL EXPERIENCE

RESEARCH

- Research Fellow** University of Michigan School of Natural Resources & Environment, Ann Arbor
Aug 2010 - present
- Principle Investigator** “Manajiwini: Respecting Tribes, First Nations and Cultural Resources in Cooperative Landscape and Climate Change Decision Making.” US Department of Interior, Upper Midwest Great Lakes Landscape Conservation Cooperative
- Principle Investigator** “Fire Management on Federal Forestlands in Michigan’s Upper Peninsula: Incorporating Tribal Priorities, Perspectives and Traditional Knowledge into United States Forest Service Management Practices.” UofM School of Natural Resources and Environment McIntire-Stennis Research Program
- Co-Principle Investigator** “American Indian Identity in the Academy” – contributed research on university hiring practices and outcomes for American Indians, 2008 American Indian Identity conference; proceedings publication forthcoming
- Co-Principal Investigator** “U.P. Tribal Timberlands Acquisition Project” Michigan State University Outreach and Engagement 2006 - 2008

Doctoral Dissertation “Ecological, Ethical & Political Dimensions of Tribal and State Natural Resource Management Systems in North Central Wisconsin” Michigan State University Department of Fisheries and Wildlife 2005 - 2010

Master’s Project Thesis “Upper Manistee River Watershed Conservation Plan” - University of Michigan, Ann Arbor 2000 - 2002

Research Assistant – to Dr. Robert Grese. Van Buren Township Park Ecological Restoration and Trail Development Project. University of Michigan, Ann Arbor 2000 - 2001

Research Assistant – to Dr. Katherine Gross. Assisted with several projects including a Long Term Ecological Research project investigating how plant diversity varies across agricultural systems following various management techniques. Kellogg Biological Station, Michigan State University 1999 - 2000

Research Assistant – to Dr. Donald Zak. Project studying effects of elevated levels of atmospheric carbon dioxide on the growth of early successional tree species. University of Michigan Biological Station 1999

Research Assistant – to Dr. Burton Barnes and Ms. Laura White. Project studying effects of prescribed burning, white-tailed deer exclusion, and aspen removal on the composition and diversity of vascular plants. University of Michigan Biological Station 1998

ADMINISTRATION

Acting Director- MSU Native American Institute, East Lansing July 2008 – Aug 2010

Assistant Director - MSU Native American Institute, East Lansing Jan-July 2008

Director – Michigan State University Tribal Natural Resource Internship Program 2009 – Aug 2010

Co-Director - Michigan Federally-recognized Tribes Extension Program 2007 – Aug 2010

Co-Director - Building Strong Sovereign Nations tribal governance initiative 2007 – Aug 2010

TEACHING AND ADVISING

Advisor (Winter 2011 to present) Hannahville Indian Community Forestland Acquisition and Forest-Based Business Planning Initiative. Master’s Project, School of Natural Resources and Environment, University of Michigan.

Graduate Student Instructor (Fall 2001 & Fall 2002) University of Michigan, Ann Arbor
Course Title: *Forest Ecology*. Primary Instructor: Professor Burton Barnes
Responsibilities: assisting in field laboratories, managing field data sets, assisting students with course materials, and teaching plant identification and ecological principles.

Graduate Student Instructor (Winter 2002) University of Michigan, Ann Arbor
Course Title: *Ecological Restoration*. Primary Instructor: Professor Robert Grese
Responsibilities: assisting with lecture and laboratory instruction, assisting in the preparation and grading of assignments and examinations, and teaching ecological restoration principles and techniques.

Graduate Student Instructor (Spring 2001) University of Michigan, Ann Arbor
Course Title: *Spring Ecosystems and Plants*. Primary Instructor: Melanie Gunn
Responsibilities: preparing and evaluating lecture and lab examinations, leading field laboratories, preparing and presenting lecture material, and teaching plant identification and ecological principles.

Graduate Student Instructor (Summer 2000) University of Michigan Biological Station
Course Title: *Ecology of Wetlands*. Primary Instructor: Dr. Barbara Madsen
Responsibilities: assisting in field laboratories, and teaching plant identification and ecological principles.

Laboratory Instructor (Fall 1999, Winter 2000) Western Michigan University, Kalamazoo
 Course Title: *Biological Sciences Laboratory*. Primary Instructor: Nicholas Reo
 Responsibilities: full preparation and delivery of lecture material, preparation and evaluation of class assignments and examinations, and total responsibility of monitoring student progress.

GRANTS

Upper Midwest – Great Lakes Landscape Cooperative, 2011- Project Principle Investigator
 Project Title: Manajiwini: Respecting Tribes, First Nations and Cultural Resources in Cooperative Landscape and Climate Change Decision Making.

Award Amount: \$128,496 over 1 year

University of Michigan Rackham Graduate School, Faculty Allies for Diversity in Graduate Education, 2011- proposal development committee member.

Project Title: “SNRE Envoys Program.”

Award Amount: \$50,000/year for 2 years.

University of Michigan School of Natural Resources and Environment McIntire-Stennis Research Program, 2010- Project Principle Investigator

Project Title: Fire Management on Federal Forestlands in Michigan’s Upper Peninsula: Incorporating Tribal Priorities, Perspectives and Traditional Knowledge

Award Amount: \$54,663 over 2 years

US Fish & Wildlife Service Tribal Wildlife Grant, 2008- Grant Team Member/Co-author
 Project Title: Kaibab Paiute Tribal wildlife management program: building capacity through training and education

Award Amount: \$199,998 over 2 years

Federally-recognized Tribes Extension Program, 2007- Co-program Director/Lead Author
 Project Title: Michigan federally-recognized tribes extension program

Award Amount: \$370,840 over 4 years

USDA Award #2007-41580-03871

MSU Extension Program Development Fund, 2007- Co-program Director/Lead Author
 Project Title: Building Strong Sovereign Nations tribal governance training

Award Amount: \$9,926

Families and Communities Together, MSU Outreach & Engagement, 2007- Co-PI/Lead Author

Project Title: Upper Peninsula Tribal Forestland Acquisition Project

Award Amount: \$25,000

COMMUNITY OUTREACH AND EDUCATION

American Indian Liaison - Michigan State University Extension, East Lansing 2003 - 2008

NATURAL RESOURCE MANAGEMENT

Land Protection Consultant - Washtenaw Land Trust, Ann Arbor, Michigan 2002 - 2003

Botanist - Michigan State University, East Lansing 2002

RESOURCE PLANNING

Program Advisory Team Member - Kaibab Paiute Tribal Wildlife Grant. Project builds tribal capacity to manage mule deer and other wildlife on Kaibab Paiute Indian Reservation, Arizona 2008 – 2010

Lead Facilitator - Match-E-Be-Nash-She-Wish Band of Potawatomi Indians Integrated Resource Management Planning initiative 2008 - 2010

PI/Presenter – Tribal land acquisition planning initiative and land planning training for tribal elected officials and staff; Hannahville Indian Community, Lac Vieux Desert Band of Lake Superior Chippewa Indians and Sault Ste. Marie Tribe of Chippewa Indians 2007 - 2008

CURRICULUM DEVELOPMENT

Steering Committee and Curriculum Development Team Member “Building Strong Sovereign Nations” tribal governance training program – Michigan State University Extension 2006 - 2010

Design Team Member, “Developing Multicultural Competencies from the Inside-Out: a lifelong journey” Michigan State University Extension Cultural Competencies Series 2006 – 2008

Instructor and Curriculum Team Member “Protectors of the Earth Youth Camp” 2003 - 2009

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

Reo, N.J. & K.P. Whyte (2011). Hunting and Morality as Elements of Traditional Ecological Knowledge. *Human Ecology*. Online First Digital Object Identifier 10.1007/s10745-011-9448-1.

Reo, N.J. & J. Karl (2010) Tribal and state ecosystem management regimes influence forest regeneration. *Forest Ecology and Management* 260 (5)

Kazmierski, J., M. Kram, E. Mills, D. Phemister, N. Reo, C. Riggs, R. Tefertiller, D. Erickson (2004) Conservation planning at the landscape scale: a landscape ecology method for regional land trusts. *Journal of Environmental Planning and Management* 47 (5): 709-736

OTHER ARTICLES

Reo, N.J. (2011) The Importance of Belief Systems in Traditional Ecological Knowledge Initiatives. *International Indigenous Policy Journal* 2 (4).

McConnell W.J., J.D.A. Millington, N.J. Reo, L.A. Baker, N. Brozović, L.E. Drinkwater, S.A. Drzyzga, J. Fragoso, D.S. Holland, T.A. Kohler, H.D.G. Maschner, M. Monticino, G. Podestá, R.G. Pontius Jr., C.L. Redman, D. Sailor, G. Urquhart and J. Liu. Research on Coupled Human and Natural Systems (CHANS): Approach, Challenges and Strategies. *Bulletin of the Ecological Society of America* 92 (2).

Reo, N. (2009) Ash trees, Indian communities and the emerald ash borer. Unpublished article available online at www.emeraldashborer.info/educational.cfm

Leefers, L., and N. Reo (2009) Diversifying tribal assets via forestland acquisition: setting priorities in Michigan. Proceedings of the Society of the American Foresters 2009 National Convention, Orlando, FL, September 29-October 2, 2009. Bethesda, MD: Society of American Foresters, 2009. CD-ROM.

Reo, N.J. (2007) The Upper Peninsula tribal forestland acquisition project. Michigan State University Fisheries & Wildlife Spotlight Magazine. Winter 2006/Spring 2007

LECTURES & PRESENTATIONS

INVITED PRESENTATIONS AND GUEST LECTURES

“Guns, GMC’s and Steel: the fate of Traditional Ecological Knowledge in hunting and tribal natural resource governance” invited speaker, Dartmouth College Environmental Studies Program. January 2012

- “Aanii Ezhi-maamwiboodaweyaang: Restoring (traditional) knowledge, ecosystems & tribal relations through fire management” invited speaker, Toihuarewa Brown Bag Research Seminar Series. Victoria University of Wellington, New Zealand. November 2011
- “Morality and hunting as components of Traditional Ecological Knowledge” invited speaker, 2011 Toihuarewa - Te Mata o Te Tau Research Symposium. Victoria University of Wellington, New Zealand. November 2011
- “Manajiwini: natural resource management cooperation involving Tribes” invited speaker, Waikato University Te Piringa Faculty of Law, New Zealand. November 2011
- “Manajiwini: natural resource management cooperation between tribal and non-tribal parties in the Great Lakes Region of North America” invited speaker, Waipapa Marae, University of Auckland City Campus, New Zealand. November 2011
- “Manajiwini: natural resource management cooperation involving Tribes” invited speaker, Waikato-Tainui Raupatu River Trust, Hamilton, New Zealand. November 2011
- “Manajiwini: natural resource management cooperation involving Tribes” invited speaker, Nga Uri o Mahanga, sub-tribe of the Waikato-Tainui, Whatawhata, New Zealand. November 2011
- “Natural resource management and ecological research with tribal communities” invited speaker, Workshop entitled “The Active Ecologist”. *Ecological Society of America Annual Meeting*, Austin, TX. August 2011
- “Regeneration Ecology and Management of Oak Forests in the Northeastern US” guest lecture and instructor of ecological field problem, Field Ecology course, University of Michigan School of Natural Resource and Environment. October 2010
- “Ecological Restoration in Indian Country” guest lecture, Ecological Restoration course, University of Michigan School of Natural Resource and Environment. November 2008 - 2010
- “Emergence, growth and survivorship among American Indian Scholars” invited speaker, *American Indian Science and Engineering Society Regional Conference*, Michigan State University. April 2008
- “Emerald Ash Borer in Indian Country” invited presentation at National Tribal Invasive Species Conference, Reno, NV. November 2006
- “American Indian Natural Resource Policy, Past and Present” guest lecture, MSU Department of Forestry Natural Resource Policy course. November 2006
- “Anishnaabek Land Tenure, Past and Present” guest lecture, MSU History course titled “Native Americans in North American History from 1830.” April 2005 – 2007

CONFERENCE PRESENTATIONS

- “(Re)Establishing Tribal Involvement in Fire Management in the Eastern Upper Peninsula of Michigan” oral presentation at Stewardship Network conference entitled “The Science, Practice and Art of Restoring Native Ecosystems.” January 2012
- “Aanii Ezhi-maamwiboodaweyaang: Restoring (traditional) knowledge, ecosystems & tribal relations through fire management” oral presentation at 43rd *Algonquian Conference*, Ann Arbor, MI. October, 2011.
- “Restoring (traditional) knowledge, ecosystems & tribal relations through fire management” oral presentation at *Conference of Ford Fellows*, Irvine, CA. Oct 15, 2011
- “Cultural & Ethical Contexts of Contemporary Tribal Hunting” oral presentation at *Pathways to Success Conference: integrating human dimensions into fish and wildlife management*, Estes Park, CO. Sept 2010
- “Ecological and Human Dimensions of Tribal Natural Resource Management” plenary presentation at *Conference of Ford Fellows*, Irvine, CA. October 2010

- “Beyond Conflict: cross-boundary natural resource management in North Central Wisconsin” oral presentation at *Annual Symposium of the U.S. Regional Association of the International Association for Landscape Ecology*, Snowbird, Utah. April 2009
- “Interacting Effects of Timber Management and White-tailed Deer Management on Northern Red Oak Regeneration” oral presentation at *Great Lakes Regional Conference of the Native American Fish and Wildlife Society*. Lac du Flambeau, WI. September 2007
- “Opportunities and Challenges of Upper Peninsula Tribal Forestland Acquisition” poster presentation at *Michigan Land Use Summit*, East Lansing, MI. February 2007
- “Improving the Resilience of Forest Ecosystems and Forest-based Economies on Tribal, Federal and State Lands,” oral presentation at *Great Lakes Regional Conference of the Native American Fish and Wildlife Society*, Manistee, MI. September 2006
- “Regional Natural Resource Management Collaborations: Tribal and First Nation Participation in Great Lakes Natural Resource Management” poster presentation at the *Protecting Black Ash Basketmaking: The Threat of the Emerald Ash Borer on Native Cultural Resources* conference, Plainwell, MI. March 2006
- “Adaptive Management and Decision Analysis in Tribal and First Nation Natural Resource Management Programs,” oral presentation at *International Association of Great Lakes Research* conference, Windsor, ON. May 2006

OTHER SEMINARS & PRESENTATIONS

- “Interacting Effects of Timber Management and White-tailed Deer Management on Northern Red Oak Regeneration” brown bag seminar, Michigan State University College of Agriculture and Natural Resources. October 2007
- “Anishnabek Connections to Land and Water: considerations for Great Lakes educators” oral presented at Great Lakes Center for Ocean Sciences Education Excellence- Lake Huron Exploration Workshop. August 2007
- “Understanding Coupled Human & Natural Systems on Tribal & Public Forestlands” brown bag seminar, Michigan State University Center for Systems Integration and Sustainability. April 2007
- “Opportunities for Tribal Forestland Acquisition in Michigan’s Upper Peninsula,” presented to Sault Ste. Marie Tribe of Chippewa Indians Board of Directors, St. Ignace, MI. July 2006
- Michigan State University Extension Two-Day Multicultural Self-Awareness Workshop. Co-facilitated workshop. 2004-2008
- “Identification of Ash Species (*Fraxinus spp.*) in Michigan” presented at Anishinabek Working Together to Protect Ash Tree Resources: An Emerald Ash Borer Conference for American Indian & First Nation Peoples. Mt. Pleasant, MI. May 2005
- “Identifying and Propagating Native Plants” Presentation to the Baraga County-Keweenaw Bay Indian Community Master Gardener class. May 2005
- “Working Authentically with American Indian Communities” Presented at Michigan State University Extension 4-H Spring Conference. Tustin, MI. April 2005
- “Working Authentically With American Indian Communities” Presented at Michigan State University Extension Fall Conference. East Lansing, MI. October 2004

RECENT AWARDS

- 2011 University of Victoria at Wellington Maori Studies Department Toihuarewa Visiting Indigenous Fellowship
- 2009 MSU-NASA Professional Enhancement Award
- 2007 Ford Foundation Pre-Doctoral Fellowship

2007 Michigan State University Emma Shore-Thornton Award
 2006 American Indian Science and Engineering Society A.T. Anderson Memorial Scholarship
 2006 Sault Ste Marie Tribe of Chippewa Indians Victor Matson Sr. Tributary Award

SERVICE

UNIVERSITY

Planning Committee Member Conference of Ford Fellows 2011
Committee Member SNRE Envoys Program, School of Natural Resources and Environment,
 University of Michigan 2011-present
Referee *Conservation Biology and Ecological Modelling* 2006-present; *Human Ecology and Ecology and Society*
 2011-present
Planning Committee Member “Neocolonial Inscription and Performance: American Indian Identity
 in Higher Education” American Indian Identity Conference, Michigan State University 2007 -
 2008
Planning Committee Member Michigan State University Extension Fall Conference 2007
Review Committee Member Michigan State University Extension Multicultural Mini-Grant Program
 2005 - 2007
Review Committee Member Michigan State University Extension Multicultural Internship Program
 2006 - 2007
Search Committee Member Michigan State University Extension Director Search 2004 - 2005
Member Michigan State University American Indian Faculty and Staff Association
 2003 - 2008 (Secretary, 2004 - 2006; Vice President 2006 - 2007; President 2008)
Member Michigan State University Extension Diversity Core Team 2003 - 2008
Member Michigan State University Extension Diversity Facilitator Team, February 2004 - 2008
State Design Team Member “Reaching Environmental Awareness and Action in Communities
 Together” (Michigan 4-H environmental education grant) 2003 - 2005
Planning Committee Member School of Public Health Distinguished Lecture Series 2000

GOVERNMENT

Review Committee Member State of Michigan American Indian Community Service Block Grant
 Program 2005
Planning Committee Member USDA-Tribal Conference of Michigan, January 2004 - 2005
Review Committee Member USDA- CSREES Equity in Educational Land-Grant Status Act of 1994
 Tribal Colleges Extension Services Program, Washington D.C. 2003
Planning Committee Member Isabella County Anishnaabe Cultural Awareness In-Service, Isabella
 County, Michigan 2004
Volunteer Researcher “U.S. Forest Service Long-term Vegetative Monitoring Program” Grand
 Island, Michigan 1998 - 1999

COMMUNITY AND NON-PROFIT

Steering Committee Member Great Lakes Fisheries Trust Great Lakes Stewardship Initiative 2007 -
 2010
Planning Committee Member Protectors of the Earth Youth Camp 2003 - 2009
Singer Treetown traditional American Indian Drum group 2001-2007 (“Drumkeeper” 2003 - 2007)
Planning Committee Member “Anishinabek Working Together to Protect Ash Resources”
 Conference 2005

Volunteer Walpole Island First Nation Heritage Center Vegetation Sampling Project, Walpole
Island First Nation Unceded Territories 2001 - 2002

Volunteer Mother's Day Plant Walk, Michigan Chapter of The Nature Conservancy, Nan Weston
Nature Preserve, Washtenaw County, Michigan 2001 - 2002