

NICHOLAS P. DANZ

Assistant Professor
Department of Natural Sciences
University of Wisconsin-Superior

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Research Interests

Quantitative ecology: vegetation and floristic changes across forest ecotones, Great Lakes wetland and dune plant communities, flora of northwest Wisconsin, biotic stress-response relationships in the US Great Lakes coastal region, response of breeding birds to forest management, statistical analysis of ecological data, development of ecological indicators, biological monitoring, conservation biology, landscape ecology.

Education

- Ph.D. Natural Resources Science and Management, University of Minnesota, 2009
Dissertation: Spatial vegetation-environment relationships and distributional changes in the presettlement Minnesota prairie-forest boundary
- M.S. Biology, University of Minnesota Duluth, 1998
Minor: Applied Computational Mathematics
Thesis: Influence of Canada yew on population structure of sugar maple and beech
- B.S.E. Biology and Broadfield Science Education, University of Wisconsin-Whitewater, 1993
Minor: Earth Science

Professional Experience

Assistant Professor, Department of Natural Sciences, University of Wisconsin-Superior, 2008-present
Responsibilities: design and implement curriculum for courses in plant physiology, plant taxonomy, forest ecology and management, non-majors botany, and non-majors biology. Serve on University Academic Affairs committee, oversee greenhouse facilities and staff, direct university herbarium, and supervise work study student employees.

Research Fellow (2003-present) and *Junior Scientist* (1999-2003), Natural Resources Research Institute
Responsibilities: collect and analyze ecological data, author peer-reviewed journal articles and technical reports, administer and manage projects and budgets, develop sampling designs for ecological experiments and observational studies, develop and maintain relational databases and data entry software, provide statistical advice for students and colleagues, prepare presentations for scientific meetings.

Adjunct Instructor, Biology Department, University of Minnesota Duluth, 2000-2001, 2007
Responsibilities: design and implement course curricula for introductory biology and plant biology large lecture courses and an ecology field course. Coordinate teaching assistants, design assessments, implement technological tools for grading, instruction, and communication.

Research Assistant, City of Superior, WI, 1998-1999
Responsibilities: develop and analyze surveys to assess how municipalities implement pollution prevention, develop educational materials and curricula related to pollution prevention, give public presentations.

Botanical Contractor, Chippewa National Forest, USFS, 1997-1998
Responsibilities: collect and analyze floristic data from burned versus unburned clearcut sites, conduct rare plant surveys on rotation-age forest stands, write technical reports.

Professional Societies

International Association for Landscape Ecology
 Ecological Society of America
 Society for Conservation Biology
 International Association of Great Lakes Research
 Wisconsin Society of Science Teachers

Grants and Contracts

- 2010-2015 Great Lakes Indicator Consortium: Implementing Great Lakes Coastal Wetland Monitoring, US EPA. Co-principal Investigator with D. Uzarski *et al.* \$10M.
- 2010-2014 GLEI-II Indicator testing and refinement. Great Lakes Restoration Initiative, US EPA. Co-principal Investigator with L. Johnson *et al.* \$1.6M.
- 2010 Development of indicators of salt marsh integrity. U.S. Geological Survey. Principal Investigator. \$24,662.
- 2010 Incorporating academic service-learning through Great Lakes stewardship in Biology 111 Plants and People. University of Wisconsin-Superior AS-L Mini-grants program. \$500.
- 2010 Incorporating time-lapse photography into to the plant physiology laboratory. University of Wisconsin-Superior Teaching with Technology program. \$600.
- 2010 Western Great Lakes GLISTEN Collaborative Center. Corporation for National Civic Engagement, November 2009. Co-Principal Investigator with P. Schoff *et al.* \$43,000.
- 2010-2012 Stressor gradients and spatial narratives of the St. Louis River estuary. University of Wisconsin Sea Grant and University of Minnesota Sea Grant. Co-Principal Investigator with G. Host *et al.* \$207,000.
- 2009 Plant physiology laboratory modernization: Qubit Systems for physiological research. University of Wisconsin-Superior, Laboratory Modernization Program. \$10,000.
- 2008-2009 Development of a multi-metric assessment tool for coastal salt marsh integrity: evaluation of pilot data. U.S. Geological Survey. Principal Investigator. \$20,000.
- 2007-2008 Monitoring breeding birds in western Great Lakes national forests. U.S. Forest Service. Co-Principal Investigator with G. Niemi. \$240,000.
- 2007 Development of landbird monitoring protocols for the Great Lakes Network parks. National Park Service. Principal Investigator. \$22,999.

Publications

- Accepted for publication. Niemi, G.J., E.D. Reavie, G.S. Peterson, J.R. Kelly, C.A. Johnston, L.B. Johnston, R.W. Howe, G.E. Host, T.P. Hollenhorst, N.P. Danz, J.H. Ciborowski, T.N. Brown, V.J. Brady, and R.P. Axler. An integrated approach to assessing multiple stressors for coastal Lake Superior. *Aquatic Ecosystem Health and Management*, Summer 2011.
- 2011 Danz, N.P., P.B. Reich, L.E. Frelich, and G.J. Niemi. Vegetation controls vary across space and spatial scale in a historic grassland-forest biome boundary. *Ecography*, 34(3):402-414.
- 2009 Etterson, M.A., G.J. Niemi, and N.P. Danz. Estimating the effects of detection heterogeneity and

- overdispersion on trends estimated from avian point counts. *Ecological Applications* 19(8):2049-2066.
- 2009 Johnston, C.A., T. Brown, T. Hollenhorst, P. Wolter, N. Danz, G. Niemi. GIS in Support of Ecological Indicator Development. Pages 1095-1114 in M. Madden, ed. *Manual of Geographic Information Systems*. American Society for Photogrammetry and Remote Sensing, Bethesda, MD.
- 2009 Trebitz, A.S., J.C. Brazner, N.P. Danz, M. Pearson, G. Peterson, D. Tanner, D. Taylor, C. West, and T. Hollenhorst. Geographic, anthropogenic, and site-specific habitat influences on Great Lakes coastal wetland fish assemblages. *Canadian Journal of Fisheries and Aquatic Sciences* 66:1328-1342.
- 2009 Niemi, G.J., V. Brady, T. Brown, N.P. Danz, D. Ghioca, J.M. Hanowski, T. Hollenhorst, R. Howe, L.B. Johnson, C.A. Johnston, and E. Reavie. Development of ecological indicators for the U.S. Great Lakes Coastal Region - a summary of applications in Lake Huron. *Aquatic Ecosystem Health & Management* 12(1):77-89.
- 2008 Vora, R., S. Lerol, and N.P. Danz. Multi-species planting and other reforestation practices to restore within-stand diversity in northeastern Minnesota, USA. *Ecological Restoration* 26(4):340-349.
- 2008 Reavie, E.D., G.V. Sgro, N.P. Danz, R.P. Axler, A.R. Kireta, J.C. Kingston, and T.P. Hollenhorst. Comparison of simple and multimetric diatom-based indices for Great Lakes coastline disturbance. *Journal of Phycology* 44:787-802.
- 2008 Morrice, J.A., N.P. Danz, R.R. Regal, J.R. Kelly, G.J. Niemi, E.D. Reavie, T. Hollenhorst, R.P. Axler, A.S. Trebitz, A.M. Cotter, and G.S. Peterson. Human influences on water quality in Great Lakes wetlands. *Environmental Management* 41:347-357.
- 2007 Brady, V.J., J.J.H. Ciborowski, L.B. Johnson, N.P. Danz, J.D. Holland, D.H. Breneman, and J.P. Gathman. Optimizing Fishing Time: One vs. Two-Night Fyke Net Sets in Great Lakes Coastal Systems. *Journal of Great Lakes Research* 33(Special Issue 3):236-244.
- 2007 Brazner, J.C., N.P. Danz, G.J. Niemi, R.R. Regal, T. Hollenhorst, G. Host, T. Brown, A.S. Trebitz, C.A. Johnston, E.D. Reavie, R.W. Howe, J.M. Hanowski, L.B. Johnson, J.J.H. Ciborowski, and G.V. Sgro. Responsiveness of Great Lakes wetland indicators to human disturbances at multiple spatial scales: a multi-assemblage assessment. *Journal of Great Lakes Research* 33(Special Issue 3):42-66.
- 2007 Hanowski, J.M., N. Danz, R.W. Howe, R.R. Regal, and G.J. Niemi. Considerations for monitoring breeding bird communities in Great Lakes coastal wetlands. *Journal of Great Lakes Research* 33(Special Issue 3):245-252.
- 2007 Howe, R.W., R.R. Regal, J.M. Hanowski, G.J. Niemi, N.P. Danz, and C. Smith. An index of ecological condition based on bird assemblages in Great Lakes coastal wetlands. *Journal of Great Lakes Research* 33(Special Issue 3):93-105.
- 2007 Niemi, G.J., J.R. Kelly, and N.P. Danz. Environmental indicators for the coastal region of the North American Great Lakes: introduction and prospectus. *Journal of Great Lakes Research* 33(Special Issue 3):1-12.
- 2007 Kireta, A.M., E.D. Reavie, N.P. Danz, R.P. Axler, G.V. Sgro, J.C. Kingston, T.N. Brown, and T. Hollenhorst. Coastal geomorphic and lake variability in the Laurentian Great Lakes: implications for a diatom-based monitoring tool. *Journal of Great Lakes Research* 33(Special Issue 3):136-153.
- 2007 Howe, R.W., R.R. Regal, G.J. Niemi, N.P. Danz, and J.M. Hanowski. A probability-based indicator of ecological condition. *Ecological Indicators* 7:793-806.
- 2007 Hanowski, J., N. Danz, R. Howe, and G. Niemi. Consideration of geography and wetland geomorphic type in the development of Great Lakes coastal wetland bird indicators. *EcoHealth* 4:194-205.
- 2007 Danz, N.P., G.J. Niemi, R.R. Regal, T. Hollenhorst, L.B. Johnson, J.M. Hanowski, R. Axler, J.J.H. Ciborowski, T.

- Hrabik, V.J. Brady, J.R. Kelly, J.A. Morrice, J.C. Brazner, R.W. Howe, C.A. Johnston, and G.E. Host. Integrated gradients of anthropogenic stress in the U.S. Great Lakes basin. *Environmental Management* 39(5):631-647.
- 2007 Sgro, G.V., E.D. Reavie, J.C. Kingston, A.R. Kireta, M.J. Ferguson, N.P. Danz, and J.R. Johansen. A diatom quality index from a diatom-based total phosphorus inference model. *Environmental Bioindicators* 2(1):15-34.
- 2007 Brazner, J.C., N.P. Danz, G.J. Niemi, R.R. Regal, Trebitz, A.S., R.W. Howe, J.M. Hanowski, L.B. Johnson, J.J.H. Ciborowski, C.A. Johnston, E.D. Reavie, V.J. Brady, and G.V. Sgro. Evaluation of geographic, geomorphic, and human influences on Great Lakes wetland indicators: a multi-assembly approach. *Ecological Indicators* 7:610-635.
- 2007 Hanowski, J., N. Danz, J. Lind. Breeding bird response to riparian forest management: nine years post harvest. *Forest Ecology and Management* 241:272-277.
- 2006 Hill, B.J., C.M. Elonen, T.M. Jicha, A.M. Cotter, A.S. Trebitz, and N.P. Danz. Sediment microbial enzyme activity in Great Lakes coastal wetlands. *Freshwater Biology* 51:1670-1683.
- 2006 Reavie, E.D., R.P. Axler, G.V. Sgro, J.C. Kingston, A.R. Kireta, T.N. Brown, N.P. Danz, and T.P. Hollenhorst. Diatom-based weighted-averaging models for Great Lakes coastal water quality: relationships to watershed characteristics. *Journal of Great Lakes Research* 32:321-347.
- 2006 Hanowski, J., N. Danz, and J. Lind. Response of breeding bird communities to forest harvest around seasonal ponds in northern forests, USA. *Forest Ecology and Management* 229:63-72.
- 2005 Hanowski, J.M., J. Lind, N. Danz, G.J. Niemi, and T. Jones. Regional breeding bird monitoring in western Great Lakes national forests. Pages 974-981 in Ralph, C.J., and T.D. Rich, editors. *Bird Conservation Implementation and Integration in the Americas: Proceedings of the Third International Partners In Flight Conference*. 2002 March 20-24; Asilomar, California; Volume 2. General Technical Report PSW-GTR-191. Albany, CA: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture; 643 p.
- 2005 Hanowski, J., N. Danz, J. Lind and G. Niemi. Breeding bird response to varying amounts of basal area retention in riparian buffers. *Journal of Wildlife Management* 69:689-698.
- 2005 Danz, N.P., R.R. Regal, G.J. Niemi, V.J. Brady, T. Hollenhorst, L.B. Johnson, G.E. Host, J.M. Hanowski, C.A. Johnston, T. Brown, J. Kingston, and J.R. Kelly. Environmentally stratified sampling design for the development of Great Lakes environmental indicators. *Environmental Monitoring and Assessment* 102:41-65.
- 2004 Lind, J., N. Danz, M.T. Jones, J.M. Hanowski, and G.J. Niemi. Forest bird population trends in Minnesota, 1991 to 2002. *The Loon* 75:182-188.
- 2004 Niemi, G.J., J.M. Hanowski, J.M., N. Danz, R. Howe, M.T. Jones, J. Lind, and D. Mladenoff. Hierarchical scales in landscape responses by forest birds. *Landscape Ecology and Wildlife Habitat Evaluation: Critical Information for Ecological Risk Assessment, Land-Use Management Activities, and Biodiversity Enhancement Practices*, ASTM STP 1458, L.A. Kapustka, H. Gilbraith, M. Luxon, and G.R. Biddinger, Editors, American Society for Testing and Materials, West Conshohocken, PA, 2004.
- 2003 Hanowski, J., N. Danz, J. Lind, and G. Niemi. Breeding bird response to forest harvest and harvest equipment. *Forest Ecology and Management* 174:315-328.
- 2003 Lind, J., N. Danz, M.T. Jones, J.M. Hanowski, and G.J. Niemi. Forest bird population trends on the Chequamegon National Forest (1992-2002). *Passenger Pigeon* 65(4):233-244.
- 1999 Schimpf, D.J. and N.P. Danz. Light transmission through leaf litter: variation among northern hardwood trees. *Agricultural and Forest Meteorology* 97:103-111.

Technical Publications

- 2010 Gostomksi, T., M. Knutson, N.P. Danz, B. Route, and T.W. Sutherland. Landbird monitoring protocol, Great Lakes Inventory and Monitoring Network. Natural Resource Report NPS/GLKN/NRR—2010/225. National Park Service, Fort Collins, Colorado.
- 2009 Danz, N.P. The Minnesota forest bird project database: description and user's guide. NRRI Technical Report, NRRI/TR-2009/35, University of Minnesota Duluth, Duluth, MN.
- 2008 Knutson, M. G., N. P. Danz, T. W. Sutherland, and B. R. Gray. 2008. Landbird Monitoring Protocol for the U.S. Fish and Wildlife Service, Midwest and Northeast Regions, Version 1. Biological Monitoring Team Technical Report BMT-2008-01. U.S. Fish and Wildlife Service, La Crosse, WI. 25 pages + 11 Standard Operating Procedures.
- 2008 Danz, N.P., A. Bracey, and G.J. Niemi. 2008. Breeding bird monitoring in western Great Lakes national forests 1991-2007. NRRI Technical Report NRRI/TR-2008/11.
- 2007 Etterson, M., N. Danz, J. Lind, J. Hanowski, and G. Niemi. Update Report: Breeding bird monitoring in Great Lakes national forests 1991-2006. NRRI Technical Report 2007/01.
- 2006 Niemi, G.J., Axler, R.P., Brady, V.J., Brazner, J.C., Brown, T.N., Ciborowski, J.J.H., Danz, N.P., Hanowski, J.M., Hollenhorst, T.P., Howe, R.W., Johnson, L.B., Johnston, C.A., Reavie, E.D., Simcik, M., Swackhamer, D. Environmental indicators for the coastal region of the U.S. Great Lakes. NRRI/TR-2006/11 1-124
- 2006 Lind, J., N. Danz, and J.M. Hanowski. 2006. Conservation analysis for declining forest bird species (1991-2005) on the Chequamegon, Chippewa, and Superior National Forests. NRRI Technical Report NRRI/TR-2006-07.
- 2005 Lind, J., N. Danz, J. Hanowski, and G. Niemi. Update Report: Breeding bird monitoring in Great Lakes national forests 1991-2005. NRRI Technical Report 2006/06.
- 2005 Kilgore, M.A., A.R. Ek, K.A. Buhr, L.E. Frelich, J.M. Hanowski, C.M. Hibbard, A.O. Finley, L.C. Rathburn, N.P. Danz, J.W. Lind, and G.J. Niemi. Minnesota timber harvesting GEIS: an assessment of the first 10 years. Staff Paper Series No. 182, Department of Forest Resources, College of Natural Resources, University of Minnesota.
- 2005 Hanowski, J., N. Danz, and J. Lind. Response of breeding birds to forest harvest in buffers around seasonal ponds in northern forests. Natural Resources Research Institute Technical Report NRRI/2005/10.
- 2005 Lind, J., N. Danz, J. Hanowski, and G. Niemi. Update Report: Breeding bird monitoring in Great Lakes national forests 1991-2004. NRRI Technical Report 2005/04.
- 2005 Lind, J., N. Danz, and J. Hanowski. Analysis of landbird monitoring data for national parks in the Great Lakes Network. Great Lakes Inventory and Monitoring Network Report GLKN/2005/08.
- 2004 Blinn, C.R., D.M. Atuke, N. Danz, J. Hanowski, D. Kastendick, R. Kolka, J. Lind, R. Newman, B. Palik, N. Schlessler, J. Steil, D. Streblov, B. Vondracek, and E. Zenner. Evaluating Timber Harvesting and Forest Management Guidelines. Final Report to Legislative Commission on Minnesota Resources.
- 2003 Lind, J., N. Danz, M.T. Jones, J. Hanowski, and G. Niemi. Update Report: Breeding bird monitoring in Great Lakes national forests 1991-2003. NRRI Technical Report 2003/46.
- 2003 Hanowski, J.M., and N.P. Danz. Response of breeding birds to forest plan revision alternatives in the Chippewa and Superior National Forests. Technical Report to Minnesota Center for Environmental Advocacy.
- 2003 Niemi, G.J., J.M. Hanowski, N. Danz, J. Lind, M.T. Jones, and J. Sales. Minnesota's Forest Bird Diversity Initiative FY02-03 Final Report. Fish and Wildlife Research #30. NRRI Technical Report NRRI/TR-2003/11.

- 2002 Lind, J., N. Danz, M.T. Jones, J. Hanowski, and G. Niemi. Update Report: Breeding bird monitoring in Great Lakes national forests 1991-2002. NRRI Technical Report 2002/24.
- 2002 Howe, R., M.T. Jones, N. Danz, J. Hanowski, G.J. Niemi, D. Ewert, and J. Davis. A GIS framework for bird conservation and monitoring. Final Report to Great Lakes National Program Office, Chicago, IL.
- 2001 Hanowski, J.M., N. Danz, J. Lind, G. Niemi, and P. Wolter. Wildlife species: responses to forest harvesting and management in riparian stands and landscapes. Minnesota Forest Resources Council and National Council for Air and Stream Improvement. NRRI/TR-2001/02
- 2001 Lind, J., N. Danz, M.T. Jones, J. Hanowski, and G. Niemi. Update Report: Breeding bird monitoring in Great Lakes national forests 1991-2001. NRRI Technical Report 2001/39.
- 2001 Lind, J., N. Danz, M.T. Jones, J. Hanowski, and G. Niemi. Update Report: Breeding bird monitoring in Great Lakes national forests 1991-2000. NRRI Technical Report 2001/04.
- 2000 Lind, J., N. Danz, M.T. Jones, J. Hanowski, and G. Niemi. Update Report: Breeding bird monitoring in Great Lakes national forests 1991-1999. NRRI Technical Report 2000/04.

Lead-authored Presentations (>100 coauthored presentations)

International Association of Great Lakes Research, Duluth, MN, June 2011
 Department of Biology, University of Minnesota Duluth, Nov 2009
 Natural Resources Science and Management Program, University of Minnesota, St. Paul, 2009
 Northeast Forest Soils Conference, Cloquet, MN and Thunder Bay, ONT, 2007
 Department of Forest Resources, University of Minnesota, St. Paul, 2007
 International Association of Great Lakes Research, 49th Annual Conference, Windsor, ONT, 2006
 Estuarine and Great Lakes (EaGLe) Conference, Duluth, MN, 2004
 International Association of Great Lakes Research, 47th Annual Conference, Waterloo, ONT., 2004
 US EPA Environmental Monitoring and Assessment Program (EMAP) 2004, Newport, RI, 2004
 Estuarine and Great Lakes (EaGLe) Conference, Bodega Bay, CA, 2003
 Annual Meeting of the Ecological Society of America, Savannah, GA, 2003
 17th Annual Meeting of the Society for Conservation Biology, Duluth, MN, 2003
 International Association of Great Lakes Research, 46th Annual Conference, Chicago, IL, 2003
 Lake Erie Millennium Network Biennial Conference, Windsor, ONT, 2003
 The Wildlife Society, Dubuque, IA, 2003
 Wisconsin Society of Science Teachers Annual Convention, Duluth, MN, 2001
 Annual Meeting of the Ecological Society of America, Baltimore, MD, 1998

Honors and Fellowships

Honorable Mention (coauthor with Morrice *et al.* and Trebitz *et al.*), Scientific and Technological Achievement Award (STAA) Competition, US EPA, 2009
 Highly Cited Author Award (Reavie *et al.* 2007), Journal of Great Lakes Research 2006-2008
 Block Fellowship, University of Minnesota, Fall 2008
 Travel Fellowship, University of Minnesota Duluth, 1998
 Outstanding Graduate Teaching Assistant award, University of Minnesota Duluth, 1997
 Summer Block Fellowship, University of Minnesota Duluth, 1997
 Summer Block Fellowship, University of Minnesota Duluth, 1996
 Outstanding Junior in Biology, University of Wisconsin-Whitewater, 1992
 Outstanding Earth Science Student, University of Wisconsin-Whitewater, 1992
 Cummings Award in Biology, University of Wisconsin-Whitewater, 1992
 Irvin L. Young scholarship, University of Wisconsin-Whitewater, 1992

Professional Service and Volunteer Work

Manuscript referee: Forest Ecology and Management, Landscape Ecology, Journal of Field Ornithology, Environmental Management, Polish Journal of Environmental Studies
 UWS University-wide search and screen committee for Grants Coordinator position, Spring 2010
 UWS University-wide Library Advising Committee 2009-present
 UWS Department of Natural Sciences, member search and screen committee for Geologist position, 2009-2010
 UWS Department of Natural Sciences representative to university Academic Affairs Committee, 2009-present
 Minnesota Breeding Bird Atlas ad hoc Technical Committee, 2007
 Douglas County delegate, Wisconsin Conservation Congress, Habitat Committee and Air, Water, and Waste Committee, 2003-2008
 Abstract reviewer, Society for Conservation Biology, 2003
 Participant, Brule River State Forest master planning citizen group, 1999-2001
 Graduate student representative, College of Science and Engineering Program Committee, University of Minnesota Duluth, 1997-1998
 Graduate student representative to Department of Biology, University of Minnesota Duluth, 1997-1998
 Volunteer naturalist, Military Ridge State Park Trail, WI, 1993-1995
 Member, Botanical Club of Wisconsin, 2000-present
 Member, The Nature Conservancy, Wisconsin Chapter, 1991-present

Research and Quantitative Skills

Field: knowledge of vascular flora of northern Wisconsin and Minnesota, floristic surveys in forests, open areas, and bogs using random walks, quadrats, and relevés, forest stand measurements using distance-based approaches (PCQ), wedge prisms, and enumeration, point estimates of vegetation cover, tree increment coring, seedling morphology measurements.

Statistical techniques: analysis of variance, regression (linear, loess, logistic, Poisson), classification and regression trees, ordination (correspondence analysis, non-metric multi-dimensional scaling, redundancy analysis, principal response curves), principal components analysis, canonical correlation analysis, mixed models, multi-response permutation procedure, bootstrapping, discriminant function analysis, before-after control-impact designs, stratified random sampling designs, repeated measures, hierarchical partitioning, power analysis, cluster analysis, model selection criteria, data transformations.

Software: SAS, S-Plus, R, CANOCO, PC-Ord, CART, ArcGIS, Microsoft Office suite, Paint Shop Pro.

Prior Teaching Experience

Instructor, Ecology Lab, 2 cr., University of Minnesota Duluth, 2007
 Instructor, General Biology II, 5 cr., University of Minnesota Duluth, 2000, 2001
 Instructor, General Biology I, 5 cr., University of Minnesota Duluth, 2000
 On-site Coordinator, Itasca Field Biology Enrichment Program, University of Minnesota, 1998
 Graduate Teaching Assistant, University of Minnesota Duluth, 1995-1998
 Life Science Teacher, Neenah Joint School District, Neenah, WI, 1994-1995
 Teaching Assistant, Science World, Wisconsin Department of Public Instruction, 1992-1993

Graduate Coursework

Plant Autecology	Measurement and Analysis of Vegetation
Plant Population and Community Ecology	Conservation Biology
Stream Ecology	Landscape Ecology
Mathematical Ecology	Research Problems: Forest Spatial Data Analysis

Economic and Social Aspects of Conservation
Biology
Applied Statistical Analysis
Linear Regression Analysis

Multivariate Analysis
GIS for Natural Resources
Proposal Writing

Courses as Graduate Teaching Assistant

Human Anatomy
Plant Diversity
Biology and Society
Introductory Biology

Plant Biology
Genetics
Conservation Biology

References

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