

PETE INGRAHAM

EDUCATION

University of New Hampshire, Durham, M. S. Natural Resources, 2004

Thesis: *Detecting Rich Mesic Forest in New Hampshire, a Remote Sensing and GIS Approach.*

University of Massachusetts, Amherst, B. A. Geography, *summa cum laude*, 1998

Thesis: *An Analysis of the Instrumental Climate Record of Amherst, MA, 1836-1997.*

NATURAL RESOURCE GIS EXPERIENCE

Research Scientist, Applied GeoSolutions, LLC., Newmarket, New Hampshire. 2007 to present.

Develop and perform remote sensing and GIS based applications for environmental monitoring, land use change, and spatial epidemiological applications:

- Conduct GIS analysis and modeling of land use change (currently working in Rockingham County, NH);
- Generate remote sensing-based data sets (PALSAR radar) for epidemiological monitoring and risk modeling (currently working on predicting Lyme Disease risk in NH).

Conservation Planning Consultant, Kane & Ingraham, Conservation Consultants, 2006 to present.

Develop ecologically-based natural resource inventories, strategic conservation plans, cartographic products, and data analyses for land conservation in NH.

- Developed and prepared natural resource inventory, conservation plan, and maps series for the Washington, NH Conservation Commission; innovative and forward-thinking products included an investigation of ecological connections between existing conservation lands and model of anthropogenic threats to Washington's natural resources;
- Developed and prepared natural resource inventory analyses and map series for the conservation commissions of Jaffrey and Weare, NH.

GIS and Conservation Information Manager, The Nature Conservancy, Concord, New Hampshire. 2005 to 2008.

Provide conservation planning and an ecological perspective to land protection and stewardship:

- Conduct science-based analysis and conservation modeling for TNC and partner initiatives;
- Developed an ecological fragmentation model under contract to NH Fish and Game for the *NH Wildlife Action Plan*;
- Served as GIS analyst, advisor, and writer/editor for the *Land Conservation Plan for NH's Coastal Watersheds* under contract to the NH Estuaries Project.

Manage chapter's geographic information system:

- Oversee the use of GIS data, software, and hardware organization-wide;
- Create high-quality cartographic products;
- Develop training and provide technical assistance to nine GIS and GPS users.

Research Associate / GIS Specialist, Society for the Protection of New Hampshire Forests, Concord, New Hampshire. 2002 to 2005.

Research Associate (2004-5):

- Employed image analysis to determine the intensity of forestry operations in NH; served as project manager through work with SPNHF staff and academic partners.
- Provided conservation planning, ecological research, GIS and remote sensing expertise;
- Served as co-author and lead GIS analyst for *NH's Changing Landscape* publication;

GIS Specialist (2002-4):

- Developed and analyzed GIS data for municipalities and conservation organizations; created analysis plan for natural resource co-occurrence models and natural resource inventories;
- Performed cartography and GIS analysis for in-house conservation, land management, and easement stewardship projects.

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Stewardship Technician, Sudbury Valley Trustees, Inc., Maynard, Massachusetts. 1999 to 2002.

Managed easement stewardship and property maintenance projects:

- Rewrote, updated, and instituted policy for conservation easement monitoring and documentation program; brought all easements up to new standard through field photo-documentation and an improved archive system;
- Supervised field stewardship and maintenance projects by directing seasonal employees and volunteers.

Instituted and managed organizational geographic information system:

- Provided GIS analysis; generated maps and analyses for Stewardship and Land Protection staff;
- Researched, acquired and integrated data from municipal and state agencies; collected field data through use of GPS; digitized property boundaries to create spatially precise data-layer.

GIS INTERNSHIP

GIS Management Intern, Dogal Hayati Koruma Dernegi, Istanbul, Turkey. 1998. (DHKD is the World Wildlife Fund member organization in Turkey.)

- Input spatial and attribute data into GIS; performed data quality assessment and analysis;
- Educated staff on GIS process, technique, and analysis, including tutorial sessions and company presentation;
- Wrote and presented the graduate seminar, "Principles of GIS," for Bosphorus University Environmental Science Department, Istanbul, Turkey. November 1998.

STRENGTHS

GIS: Expert *ArcGIS/ArcInfo* user; skilled with Spatial Analyst, 3D Analyst, Model Builder.

Statistics: Proficient with Systat and Excel.

Remote Sensing: Proficient ERDAS *Imagine* and *ENVI* user; skilled with multispectral and hyperspectral analysis.

Personal Attributes: Conscientious and team-oriented; clear and effective communicator; extremely reliable; disciplined independent worker with a strong work ethic; creative thinker, analytical and detail oriented.

ACADEMIC HONORS

New Hampshire NASA Space Grant Fellow, 2003-2004

Phi Beta Kappa member, May 1999

University of Massachusetts Honors Program, Commonwealth Scholar, 1995–1998

Outstanding Geography Senior, 1998

Award Winning Honors Thesis Presentation, Conference for Scholarly, Creative, and Public Service Activities, Boston, 1998