

Mahtab A. Lodhi
Department of Geography
University of New Orleans, Louisiana 70148
Phone: (504) 280 – 7169 Fax: (504) 280 – 1123
E-mail: mlodhi@uno.edu

EDUCATION:

1998 Ph.D. Geography, University of Nebraska – Lincoln
1990 M.A. Geography, University of Nebraska at Omaha
1984 M.Sc. Geography, University of Peshawar, Pakistan
1983 Diploma in French Language, University of Peshawar, Pakistan
1981 B.Sc. Biology, University of Peshawar, Pakistan

PROFESSIONAL EXPERIENCE:

August 2004 – Present

University of New Orleans – Department of Geography
Associate Professor, Remote Sensing

August 1998 – August, 2004

University of New Orleans – Department of Geography
Assistant Professor, Remote Sensing

January 1997 – May 1998

University of Nebraska – Lincoln, Center for Advanced Land Management and Information Technologies (CALMIT).
Graduate Research Assistant (Web-based remote sensing education)

June 1993 – December 1995

University of Nebraska – Lincoln, Center for Advanced Land Management and Information Technologies (CALMIT).
Graduate Research Assistant (remote sensing for water resources).

January 1992 – December 1992

University of Nebraska – Lincoln, Department of Geography.
Graduate Research Assistant (funded by Department of Geography, University of Nebraska at Omaha) (deforestation in western Himalayas)

August 1987 – May 1989

University of Nebraska at Omaha, Department of Geography
Graduate Teaching Assistant (Physical Geography)

July 1996 – December 1996

State of Nebraska, Department of Economic Development
Graduate Internship. (Research on finding the funding sources for low – income housing development)

August 1989 – December 1990

Omaha Public Power District, Omaha Nebraska

Technical training coordinator.

January 1986 – July 1987

University of Baluchistan (Pakistan), Department of Geography

Lecturer in geography (Geomorphology)

PUBLICATIONS:

Lodhi, M. A. (2002) Influence of Bright Bottom Depth on Reflectance from Clear and Turbid Water Bodies. *GEOCARTO International*, Vol. 17, No. 3: 5 – 15.

Lodhi, M. A and Rundquist, D. C., (2001) Spectral Analysis of Bottom-Induced Variation in the Color of Sand Hills Lakes, Nebraska, USA. *International Journal of Remote Sensing*, Vol. 22, No. 9: 1665 – 1682.

Lodhi, M. A., Rundquist, D. C., Han, L., and Kuzila, M. S., (1998) Estimation of Suspended Sediment Concentration in Surface Waters Using Integrated Surface Reflectance. *GEOCARTO International*, Vol. 13, No. 2: 11 – 15.

Lodhi, M. A., Echavarria, F. R., and Keithley, C., (1998) Using Remote Sensing Data to Monitor Land Cover Changes near Afghan Refugee Camps in Northern Pakistan. *GEOCARTO International*, Vol. 13, No. 1: 33 – 38.

Lodhi, M. A., Rundquist, D. C., Han, L., and Kuzila, M. S., (1997) Potential for Remote Sensing of Loess Soils Suspended in Surface Waters. *Journal of the American Water Resources Association*, Vol. 33, No. 1: 111 – 117.

Lodhi, M. A., (1999) Analysis of Spectral Signals Emanating from Vegetated and Non-Vegetated Substrates in Shallow Water Bodies. *SPIE International Society for Optical Engineering Proceedings* (Pattern Recognition, Chemometrics, and Imaging for Environmental Monitoring), Boston, Massachusetts, Sept. 19th – 22nd.

Lodhi, M. A., Echavarria, F. R., and Keithley, C., (1995), An Assessment of the impact of Afghan Refugees on Forest Resources of Northern Pakistan Using Multitemporal Remotely Sensed Data. *Proceedings ASPRS, Mapping and Environmental Applications of GIS Data*, Madison, Wisconsin, September 28th – 29th, 1995.

PARTICIPATION IN PROFESSIONAL MEETINGS & WORKSHOPS:

Third International Conference on Environmental Science and Technology, Houston, Texas, August 6 – 9, 2007. Paper presented, “*Water Quality Monitoring and Assessment Using High Resolution Remotely Sensed Data*”.

Quality Matters Peer Reviewer for Online Course Design Training Workshop, Southeastern Louisiana University, Hammond, Louisiana, May 31, 2007.

Louisiana State University, Teaching in Higher Education FORUM, Baton Rouge, Louisiana, April 15th – 17th, 2007.

Association of American Geographers, Annual Meeting, Los Angeles, California, April 17th – 21, 2007. Paper presented, “ *An Interaction Between Religion and Politics: A Case of North Western Frontier Province of Pakistan*”.

Louisiana State University, Teaching in Higher Education FORUM, Baton Rouge, Louisiana, April 24th, 2006.

NASA InSAR Workshop, Oxnard, California, October 20 – 22nd, 2004

Association of American Geographers, Annual Meeting, Los Angeles, California, March 19th – 23rd, 2002. Paper presented, “*Impact of Varying Depths of Vegetated Bottom on Spectral Signals Upwelling from Shallow Water Bodies*”.

SPIE - International Society for Optical Engineering, Conference on **Pattern Recognition, Chemometrics, and Imaging for Environmental Monitoring**, Boston, Massachusetts, September 19th - 22nd, 1999. Paper presented, “ *Analysis of Spectral Signals Emanating from Vegetated and Non-Vegetated Substrate in Shallow Water Bodies.*”

American Society for Photogrammetry and Remote Sensing, Annual Conference, Portland, Oregon, May 17th - 21st, 1999. Paper presented, “*Impact of Varying Depths of Vegetated Bottom on Spectral Signals Upwelling from a Water Body.*”

American Water Resources Association' 34th Annual Conference and Symposium Applications of Water Use Information, Point Clear, Alabama, November 16th - 19th, 1998. Paper presented, “*Analysis of Bottom Influence on Upwelling Spectral Signals in Shallow Lakes.*”

Association of American Geographers, Annual Meeting, Charlotte, North Carolina, April 9th - 13th, 1996. Paper presented (with John F. Shroder jr.), “*Pakistan's Cross Mountain Communication: Geopolitical and Economic Implications.*”

American Society for Photogrammetry and Remote Sensing, Proceedings of the Workshop on Mapping And Environmental Applications of GIS Data, Madison, Wisconsin, September 28th –29th, 1995. Paper presented (with F. R. Echavarría and C. Keithley), “*An Assessment of the Impact of Afghan Refugees on Forest Resources of Northern Pakistan Using Multitemporal Remotely-sensed data.*”

AWARDS:

Summer 2002

Liberal Arts Faculty Development Award (\$ 4,132)

Project Title: Estimation of Ecological Impact of Freshwater Diversion Projects in Southeastern Louisiana Using Multi-temporal Remotely Sensed Data.

September 1999

International Society for Optical Engineering
Symposium Registration fee Waiver (~ \$ 650)

January 1992 – December 1992

Department of Geography, University of Nebraska at Omaha

Graduate Tuition and Stipend for research in the Himalayas (\$ 10,800 total annual stipend excluding tuition)

May 1988

University Committee on Research, University of Nebraska at Omaha

M. A. Thesis Research Award (\$ 250)

Project Title: Quaternary Geomorphology of Meadville Landslide

August 1988 – May 1989

Department of Geography, University of Nebraska at Omaha

Graduate Teaching Assistantship Award (\$ ~ 13,000)

RESEARCH GRANTS AND CONTRACTS FUNDED:

Fall 2007 – Summer 2008

Mississippi State University, Center for Urban Rural Interface Studies

Project: Smart Growth Education Project for Tangipahoa, Washington, St. John and St. Tammany Parishes. (\$49,860) – Principal Investigator.

Fall 2001 – Spring 2003

NASA: Geospatial Education Pilot Study for the Gulf of Mexico Accord.

Project: Using Satellite Imagery to Analyze Agricultural land Use Changes Near Veracruz, Mexico. (\$25,000) (Co PI with Merrill Johnson)

Spring 2000

Innovations in Educational Spectroscopy, Grant for Purchasing Science Equipment for Curriculum Development. Ocean Optic, Inc.

Project: Remote Sensing for Water Resources: Spectroscopy Applications. (\$3,199 in matching funds) – Principal Investigator.

AREAS OF RESEARCH INTEREST AND EXPERTISE:

Remote Sensing of Water Resources, Remote Sensing and GIS for Land Use / Land Cover Monitoring, Mapping and Analysis, Environmental Monitoring and Assessment Using Remote Sensing and GIS, Sustainable Development, South Asia, Middle East, Geomorphology.

PROFESSIONAL SERVICE:

Third International Conference on Environmental Science and Technology, Houston, Texas, August 6 – 9, 2007. Session Chair: Urban Ecosystems

Association of American Geographers, Annual Meeting, Los Angeles, California, April 17th – 21st, 2007. Session Chair: India and Pakistan

American Society for Photogrammetry and Remote Sensing, Annual Conference, Portland, Oregon, May 17th - 21st, 1999. Session Chair: Water Quality

Reviewer for **International Journal of Remote Sensing**

ACADEMIC COURSES TAUGHT AT UNIVERSITY OF NEW ORLEANS:

GEOG 1002: Regional Geography (Africa and Middle East)
GEOG 2151: Physical Geography
GEOG 2356: Cultural Geography
GEOG 2441: Geography of Asia
GEOG 2431: Geography of the Middle East
GEOG 4810: Introduction to Remote Sensing
GEOG 4820: Digital Image Processing
GEOG 4821: Remote Sensing for Water Resources
GEOG 4901: Field Methods
GEOG 6001: Problems in Land Use
GEOG 6530: Seminar in Environmental Geography
GEOG 6820: Seminar in Remote Sensing
GEOG 6887: Geographic Thoughts and Research Methods

ACADEMIC SERVICE AT UNIVERSITY OF NEW ORLEANS:

2006 – Present

Member, Graduate Committee
College of Liberal Arts

2004 – Present

Full Member of the Graduate College

2004 – Present

Faculty Advisor
Pakistan International Student Organization

2001 – 2007

Graduate Studies Coordinator

2002, 2003, 2004, 2005

Organizer “Science Olympiad” for College of Liberal Arts

PROFESSIONAL SOCIETY MEMBERSHIP:

Association of American Geographers

