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Department of Environmental, Earth and Geospatial Sciences
North Carolina Central University

Professional Preparation

Punjab University	Mechanical Engineering	B.E. (1991)
University of Georgia	Forest Resources	M.S. (1995)
University of Georgia	Computer Science	M.S. (2001)
University of Georgia	Geography	PhD (2001)

Appointments

2005 – present	Project Coordinator, North Carolina Central University
2001-2005	Senior GIS Analyst, EarthData Solutions
2001-2001	Adjunct Assistant Professor, North Carolina Central University
1995-2001	Graduate Assistant, Geography Department, University of Georgia
1992-1995	Graduate Assistant, School of Forest Resources, University of Georgia

Publications

- Raiford, K., **Malhotra, R.** and Vlahovic, G. “The status of GIS education in North Carolina.” *Proceedings of the Twenty-eight Annual ESRI International User Conference*, San Diego, California, August 4-8, 2008.
- Trice III, J. T., **Malhotra, R.**, Madden, M. and Barnett, A. “A Geographical Information Science (GISc) Approach to Evaluating Airboat Use in the Florida Everglades.” *Proceedings of the 2008 IEEE International Geoscience & Remote Sensing Symposium*, Boston, Massachusetts, July 6-11, 2008.
- Chinwala, M.G., **Malhotra, R.** and Miller, J.A. “Progress towards Standards for XML Databases.” *Thirty-ninth Annual Association for Computing Machinery (ACM) Southeast Conference*, Athens, Georgia, March 16– 17, 2001.
- Malhotra, R.** and Johns, P.E. “Deer Vehicle Collisions: Is There a Pattern?” *Proceedings of the Twentieth Annual ESRI International User Conference*, San Diego, California, June 26-30, 2000.
- Lo, C.P. and **Malhotra, R.** “Introduction to Geographic Information Systems Laboratory Manual.” *Department of Geography, University of Georgia*, Athens, Georgia, 1999.
- Malhotra, R.** and Kriesel, W.R. “Is it on Sale?” *Proceedings of the Nineteenth Annual ESRI International User Conference*, San Diego, California, July 26-30, 1999.
- Arthaud, G.J. and **Malhotra, R.** “The Impact of Fire Frequency on Marsh Area Shrub Patches.” *Proceedings of the ISPRS Commission IV, Workshop on Mapping and Environmental Applications of GIS Data* (E.L. Usery, Ed.) of the International Archives of Photogrammetry and Remote Sensing. Vol 30, Part 4W2: 109-115, 1995.

Presentations

Vlahovic, G., **Malhotra, R.**, Renslow, M., Harris, J. and A. Barnett, “Building Geosciences Departments for the Future: Geospatial Initiatives at North Carolina Central University”, Paper Number: ED41B-0484, Fall Meeting, 10-14 December, in San Francisco, California, 2007.

Malhotra, R., Vlahovic, G., Renslow, A. Barnett M., J. Harris, "Increasing Diversity in Geosciences: Promoting Geospatial Technology at North Carolina Central University", ASPRS 2007 Annual Conference, Tampa Florida, Abstract 6352, 2007.

Malhotra, R., Vlahovic, G., Renslow, M., A. Barnett and Harris, J. "Promoting Geospatial Technology at North Carolina Central University", 27th annual ESRI International User Conference in San Diego, CA, June 18-22, 2007.

Vlahovic, G., **Malhotra, R.**, Renslow, M., Harris, J. and Barnett, A. "Increasing Diversity in Geosciences: Geospatial Initiatives at North Carolina Central University", Eos Trans. AGU, 87(52), Fall Meet. Suppl., Abstract ED51A-0834, 2007.

Everett K. H. and **Malhotra, R.** "Using GIS to Assess the Vulnerability of Eastern North Carolina Residents to a Major Hurricane", Southeastern Geographer, 27th annual ESRI International User Conference in San Diego, CA, June 18-22, 2007.

Muriuki, P., Vlahovic, G., and **Malhotra, R.** "Relationship between Landslide Geohazard and Land Use Policy in Western North Carolina", GSA Abstracts with Programs Vol. 39, No. 2, Abstract 118869, 2007.

Muriuki, P., Vlahovic, G. and **Malhotra, R.** "The GIS Analysis of Landslide Susceptibility Factors in the Southern Appalachian Mountains of North Carolina", 2007 ESRI International User Conference in San Diego, CA, 2007.

Malhotra, R., Anderson, Y., Bang, J.J., Bradshaw, M., Outen, K. and Muriuki, P. "Using Geographic Information Systems as a Tool to Enhance Community Involvement" 2006 *Community Conference and Training*, US Environmental Protection Agency, Milwaukee, WI. June 27-30, 2006.

Hoffman, G.R., **Malhotra, R.** and Burrell, R. "GeoSAR Dem Edit and Product Generation System" *ASPRS 2003 Annual Conference*, Anchorage, AK, May 5– 9, 2003.

Schuckman, K., Munjy R. and **Malhotra, R.** "Statistical Analysis of LIDAR results; North Carolina Floodplain Mapping Program, Phase I" *ASPRS/ACSM/FIG Conference*, Washington, DC, April 19– 26, 2002.

Malhotra, R. and Johns, P.J. "Deer Vehicle Collisions: Is vegetation a factor?" *Twenty-fourth Southeast Deer Study Group Meeting*, St. Louis, MO, February 18 – 21, 2001.

Malhotra, R. "GIS Education in Georgia – Our Experiences." *Innovative GEO Solutions - Georgia GIS Conference Sponsored by Georgia URISA*, Athens, Georgia, September 27-29, 1999.

Malhotra, R. and Arthaud, G. J. "Analysis of Shrub Invasion in Marshlands Using Spatial Time-series Data." *ISPRS Commission IV Symposium on Mapping and GIS*, Athens, Georgia, May 31-June 3, 1994.

Awards & Grants

American Society for Photogrammetry and Remote Sensing: Presidential Citation for pioneering the concept of Provisional Certification – 2007

North Carolina Central University: Teaching and Learning with Technology Grants – 2006 (\$3000)

National Science Foundation: Targeted Infusion Grant: Development of a GIS Certification Program and Preparing for GIS Accreditation at North Carolina Central University – 2006 (\$236,910)

National Science Foundation: Launching the GIS Research Innovative Teaching and Service (GRITS) Center at the North Carolina Central University – 2006 (\$129,608)

National Geospatial-Intelligence Agency: Geospatial Research and Internship Partnerships – 2008 (\$139,911)