

CURRICULUM VITA

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Dr. Xiaojun Yang

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AREAS OF SPECIALIZATION

- GIS-based spatial data analysis, modeling, and visualization
- Remote sensing, digital image processing, and aerial photography
- Urban indicators and spatial growth dynamics
- Environmental analysis and modeling
- Coastal and estuarine studies

EDUCATION

- Ph.D. (Geography, 2000), University of Georgia, Athens, Georgia, USA (Ph.D. Dissertation: Integrating Image Analysis and Dynamic Spatial Modeling with GIS in a Rapidly Suburbanizing Environment, 319 pages. Funded by a Doctoral Dissertation Research Improvement Award from the National Science Foundation-NSF)
- M.S. (Applied Geomorphology, 1995), International Institute for Aerospace Survey and Earth Sciences (ITC), Enschede, The Netherlands (M.S. Thesis: Monitoring Morphodynamic Aspects of Present Yellow River Delta, China: An Approach to the Integration of Satellite Remote Sensing and Geoinformatic Systems, 193 pages)
- M.S. (Geology, 1989), Chinese University of Geosciences, China (M.S. Thesis: Dinoflagellate Assemblage, Sedimentary Environment, and Oil-Producing Potential in the Kukebai Formation, Xinjiang, China)
- B.S. (Geology, 1986), Chinese University of Geosciences, China (B.S. Thesis: Sedimentary Environment and Its Tectonical Implications in Huashan Group, Hubei, China)

PROFESSIONAL APPOINTMENTS

- Tenure-track Assistant Professor, 08 August 2003 – now. Department of Geography, Florida State University
- Tenure-track Assistant Professor, 08 August 2000 – 07 August 2003. Department of Environmental Studies, University of West Florida
- Research Fellow, 2001 – now. Consortium for Estuarine Ecoindicator Research--Gulf of

Mexico, Estuarine and Great Lakes (EAGLES) Research Program, Environmental Protection Agency (EPA)

- Guest Editor, 2003 – 2005, International Journal of Remote Sensing (IJRS)
- Guest Editor, 2003 – 2004, Journal of Computers, Environment and Urban Systems (CEUS)
- Guest Editor, 2002 – 2003, Journal of Photogrammetric Engineering and Remote Sensing (PE&RS)
- Scientific Committee, 2004 – 2005, The 5th International Symposium on Remote Sensing of the Urban Areas (March 2005, Arizona, USA)
- Scientific Committee, 2002 – 2003, The 4th International Symposium on Remote Sensing of the Urban Areas (June 2003, Germany)
- Visiting Scholar, 2004, Research Center for Eco-environmental Sciences, Chinese Academy Sciences (CHINA)
- US Representative, 2001– , Commission of Mapping from Satellite Imagery, International Cartographic Association (ICA)
- University-Wide Graduate School Assistant and Teaching Assistant, 1995 – 2000, University of Georgia
- Research Assistant, 1996 – 2000, Project ATLANTA (ATlanta Land use ANalysis: Temperature and Air quality) funded by National Aeronautics and Space Administration (NASA) EOS Interdisciplinary Science Program
- NFP (Netherlands Fellowship Program) Fellow, 1993 – 1995, Under a Sino-Dutch governmental exchange program. Professional training and collaborative research
- Assistant Professor and Research Assistant Scientist, 1990 – 1995. Institute of Geography, Chinese Academy of Sciences (IGCAS), Beijing, China
- Engineer, Beijing Dadi Mining Corporation, 1989-1990. Beijing, China

PROFESSIONAL RECOGNITIONS

- Top Ten Paper By Young Scholars (who earned Ph.D. after 1994) ranked by the US National Committee (USNC) of International Cartographic Association (ICA), 2001
- Best Proposed Research Award given by the International Geographic Information Foundation (IGIF), 1999 – 2000
- United States National Science Foundation (NSF) Doctoral Dissertation Research Improvement Award, 1999
- University -Wide Graduate School Award given by the Graduate School, University of Georgia, 1997 – 1998, and 1998 –1999
- Space Imaging Award presented by the American Society for Photogrammetry and Remote Sensing (ASPRS), 1998
- Best Papers By Young Authors Award given by the International Society for Photogrammetry and Remote Sensing (ISPRS), 1996
- NFP (Netherlands Fellowship Programme) Fellowship, 1993 – 1995

UNIVERSITY TEACHING

Florida State University (Instructor)

- Introduction to Geographic Information Systems (undergraduate/graduate)
- Intermediate Geographic Information Systems (undergraduate/graduate)
- Advanced Geographic Information Sciences (/undergraduate/graduate)
- GIS for Environmental Analysis (undergraduate/graduate)
- Geographic Visualization Methods (undergraduate/graduate)

University of West Florida (Instructor)

- Photo Interpretation and Remote Sensing (undergraduate)
- Geographic Information Systems (undergraduate/graduate)
- Applications in Geographic Information Systems (undergraduate/graduate)
- Special Topics in Geographic Information Science (undergraduate/graduate)

University of Georgia (Teaching Assistant)

- Use and Applications of Aerial Photography Lab (undergraduate/graduate)
- Introduction to GIS Lab (undergraduate/graduate)
- Introduction to Landforms Lab (undergraduate)
- Advanced Geomorphology (undergraduate/graduate)
- Introduction to Physical Geography (undergraduate)

RESEARCH GRANTS

Research Grants Funded

- "Consortium for Estuarine Ecoindicator Research--Gulf of Mexico (CEER GOM)." PI, GIS and Remote Sensing Component and Watershed Project. With 14 scientists from 9 US universities in the States of Florida, Alabama, Mississippi, Louisiana, Texas, and Washington. Funded by the EPA (Environmental Protection Agency). 2001-2005. \$5,950,000 (credit to my part is approximately \$610,000)
- "Scale-dependent Driving Forces for Landscape Structure and Pattern Changes in Beijing Metropolitan Area," PI. Funded by the Kuancheng Wang Foundation, Hong Kong. 2004-2005.
- "Scale Dependence of Social and Environmental Problems." PI. Funded by Florida State University, Council on Research and Creativity (CRC), 2004 First Year Assistant Professor Award. 2004. \$13,000
- "Model Curriculum: Community Growth", Co-PI, with Soe Myint at the University of Oklahoma and Qing Shen at University of Maryland, College Park. Funded by the University of Mississippi, Institute of Advanced Education in Geospatial Science.2003-2004. \$80,000 (credit to my part is estimated at \$26,666)
- "Building a Linkage Between Land Use, Urban Heat Island Phenomena, and People Through Remote Sensing." PI. Funded by the University of West Florida 2003 Summer Faculty Research Program. 2003. \$7,500

- "A Knowledge-based Approach for Automated Classification of Urban Landscape." PI. Funded by the University of West Florida, 2002-2003 Faculty Scholarly and Creative Activities Award Program. 2003. \$2,000
- "Dynamics of Landscape Changes in Atlanta Metropolitan Area: An Analysis of Socio-Economic and Biophysical Driving Forces." PI. Funded by the University of West Florida 2001 Summer Faculty Research Program. 2001. \$7,500
- "Enhancing GIS Teaching and Learning With Electric Media." PI. Funded by the University of West Florida, Enhancing Teaching and Learning with Technology Grant. 2001. \$5,000 (including computer facility)
- "Remote Sensing of Landscape Structure and Pattern in the Pensacola Metropolitan Region." PI. Funded by the University of West Florida, 2000--2001 Faculty Small Grant Program. 2001. \$2,000
- "Monitoring and Modeling of Suburbanization in the Atlanta Metropolitan Region." PI. Funded by the International Geographic Information Foundation. 1999--2001. \$2,000
- "Integrating Multi-Date Satellite Images and Dynamic Spatial Modeling with GIS in a Rapidly Suburbanizing Environment." Co-PI (With C. P. Lo). Funded by the National Science Foundation Geography and Regional Science Program through a Doctoral Dissertation Research Improvement (DDI) Grant. 1999-2001. \$6,180
- "Use of Landsat MSS and TM Imagery and GIS for Monitoring and Modeling Land Use/Cover Dynamics in the Atlanta, Georgia Metropolitan Area." PI. Funding provided by the Space Imaging EOSAT Company. 1998--1999. \$4,000
- "Integrating Geoinformatic Techniques for the Study of Morphodynamics in the Yellow River Delta, China." Co-PI (With A. van Gelder, J. van den Berg, M. C. J. Damen, R. van Zuidam, and G. Cheng). Sino-Dutch collaborative research project funded by the Royal Dutch Academy of Sciences, Utrecht University, International Institute for Aerospace Survey and Earth Sciences in the Netherlands, and Institute of Marine Geology in China. 1993--1995
- "An Evaluation of Tourism Resources in Xishuangbanna Region." Co-PI (With Z. Yin and Y. Yang). Funded by the Tourism Administrative Bureau of Yunnan Province and the Institute of Geography under the Chinese Academy of Sciences. 1992--1995
- "Human Environment Interaction and Salt Water Intrusion in the Coastal Area of Shandong Province, China." Co-PI (With Z. Yin, W. Lin, and B. Zhou). National Key Research Project during 1990 1995. Funded by the State Council of Science and Technology, the State Planning Commission, Chinese Academy of Sciences, and Shandong Province, China. 1990--1995
- "Tourism Resources and Development Planning: Lake Henshui." Co-PI (With L. Guo and Z. Yin). Funded by the Government of Hebei Province, China. 1992
- "Tourism Resources and Development Planning: Pingtan Island." Co-PI (With W. Lin, Z. Yin, L. Song, and Y. Yang). Funded by the Tourism Administrative Bureau of Fujian Province and the Institute of Geography under the Chinese Academy of Sciences (IGCAS). 199--1993

Contract Granted

- "Development and Delivery of GIS-Based Environmental Maps for Santa Rosa County". With Mel Droubay. Fund provided by Santa Rosa County, Florida. 2001. \$5,000

Conference Travel Grants Received

- An international travel grant given by Florida State University, Council on Research and Creativity (CRC), for attending the 20th Congress of the International Society for Photogrammetry and Remote Sensing (ISPRS), Istanbul, Turkey, 2004. \$600
- A travel grant given by the University of West Florida for attending the 2003 Annual Meeting of American Society for Photogrammetry and Remote Sensing (ASPRS), Anchorage, 2003. \$1,450
- A travel grant given by the University of West Florida for attending the 99th Annual Meeting of American Association of Geographers (AAG), New Orleans, 2003. \$850
- A travel grant given by the University of Colorado for attending a NSF-funded Workshop under the Geography Faculty Development Alliance, Boulder, Colorado, 2-8 June 2002. \$450
- A travel grant given by the University of West Florida for attending the 98th Annual Meeting of American Association of Geographers (AAG), Los Angeles, 2002. \$1200
- An international travel grant given by the United States National Committee of International Cartographic Association (ICA) for attending the ICA 20th Conference in Beijing, China, 2001. \$2,530 (including UWF's matched fund)
- A travel grant given by the University of West Florida for attending the 97th Annual Meeting of American Association of Geographers (AAG), New York, 2001. \$750
- A travel grant given by the University of West Florida for attending the 2000 SEDAAG annual meeting in Chapel Hill, North Carolina, 2000. \$500
- A travel grant given by the University of West Florida for attending the 2000 Applied Geography Conference annual meeting in Tampa, Florida, 2000. \$450
- A travel grant given by the Graduate School, University of Georgia, for attending the 96th Annual Meeting of American Association of Geographers (AAG) in Pittsburgh, PA, 2000. \$400
- A combined travel grant given by the Association of American Geographers, the Graduate School, University of Georgia and the Project ATLANTA, for attending the 95th Annual Meeting of American Association of Geographers (AAG) in Honolulu, Hawaii, 1999. \$1,100
- A travel grant given by the Graduate School, University of Georgia, for attending the 94th Annual Meeting of American Association of Geographers (AAG) in Boston, Massachusetts, 1998. \$400
- A travel grant from Project ATLANTA for attending 1998 Annual Convention of American Society for Photogrammetry and Remote Sensing (ASPRS) in Tampa, Florida, 1998. \$400
- An international travel grant given by University of Georgia Research Foundation with matching fund from the Department of Geography, University of Georgia, for attending the 18th Congress of International Society for Photogrammetry and Remote Sensing (ISPRS) in Vienna, Austria, 1996. \$1,300

Proposals Denied

- "A Model and Testbed for Creating and Updating Nationwide Structural Data Sets for the National Map," Co-PI, with Christine M. Koontz, Dean K. Jue, and Keith Belton at Florida State University. Submitted to National Science Foundation (NSF). 2004-2008. \$1,550,000
- "Integrating ASTER and Census Data for Social Analysis and Urban Heat Island Modeling", Co-PI, with C. P. Lo from the University of Georgia. Submitted to National Aeronautics and

Space Administration (NASA). 2003-2006. \$421,529

PROFESSIONAL PUBLICATIONS

Theses /Dissertation Completed

1. **Yang, X.**, 2000, Integrating Image Analysis and Dynamic Spatial Modeling with GIS in a Rapidly Suburbanizing Environment (Funded by United States National Science Foundation through a Doctoral Dissertation Research Improvement Award). Ph.D. Dissertation, University of Georgia, Athens, Georgia, USA. 319 pp.
2. **Yang, X.**, 1995, Monitoring Morphodynamic Aspects of the Present Huanghe River Delta, China An Approach to the Integration of Satellite Remote Sensing and Geoinformatic Systems. M.S. Thesis, International Institute for Aerospace Survey and Earth Sciences (ITC), Enschede, Netherlands, 193 pp. (In English)
3. **Yang, X.**, 1989, Dinoflagellate Assemblage, Sedimentary Environment, and Oil-Producing Potential in the Kukebai Formation, Xinjiang, China. M.S. Thesis, Chinese University of Geosciences, Beijing, China, 80 pp. (in Chinese)
4. **Yang, X.**, 1986, Sedimentary Environment and Its Tectonical Implications in Huashan Group, Hubei, China. B.S. Thesis, Chinese University of Geosciences, Wuhan, China, 30 pp. (in Chinese)

Book

1. Yin, Z. Li, Q., **Yang, X.**, Ji. M., He, K., Zhang, Z., Zhao, S., Zhao, D., Xi, Jian, Xu, B., Gen, X., Gen, S., and Fu, M., 1991, Environment and Hazards in the Coastal Area of Shandong Peninsula (Beijing, China: Science Press), 377pp. (In Chinese)

Edited Volumes

1. **Yang, X.** (edited), 2005, Remote Sensing and GIS for Estuarine and Coastal Ecosystem Analysis. *International Journal of Remote Sensing* (in press)
2. **Yang, X.** (edited), 2005, Remote Sensing for Urban Analysis. *Journal of Computers, Environment, and Urban Systems* (in press)
3. **Yang, X.** (edited), 2003, Remote Sensing and GIS for Urban Analysis. *Photogrammetric Engineering and Remote Sensing*, 69(9): 937-1036

Peer-Reviewed Journal Articles

1. **Yang, X.**, 2005a, Remote Sensing for Urban Analysis: An Introduction. *Journal of Computers, Environment and Urban Systems* (in press).
2. **Yang, X.**, 2005b, Use of LIDAR elevation data to construct a high-resolution digital terrain model for an estuarine marsh area. *International Journal of Remote Sensing* (in press)
3. **Yang, X.**, 2005c, Remote sensing and GIS for estuarine ecosystem analysis: an overview. *International Journal of Remote Sensing* (in press)
4. **Yang, X.** and Liu, Z., 2005a, Using satellite imagery and GIS to characterize land use and land cover changes for integrated estuarine watershed assessment. *International Journal of Remote Sensing* (in press)

5. **Yang, X.** and Liu, Z., 2005b, Use of Satellite-derived Landscape Imperviousness Index to Characterize Urban Spatial Growth. *Journal of Computers, Environment and Urban Systems* (in press)
6. **Yang, X.** and Liu, Z., 2005c, Quantifying landscape pattern and its change in an estuarine watershed using satellite imagery and landscape metrics *International Journal of Remote Sensing* (in press)
7. **Yang, X.**, 2003, Remote Sensing and GIS for Urban Analysis—An Introduction. *Photogrammetric Engineering and Remote Sensing*, 69(9): 937, 939.
8. **Yang, X.** and Lo, C. P., 2003, Modeling Urban Growth and Landscape Change for Atlanta Metropolitan Region. *International Journal of Geographical Information Science*, 17(5): 463-488.
9. Lo, C. P. and **Yang, X.**, 2002, Drivers of Land Use/Cover Changes and Dynamic Modeling in Atlanta Metropolitan Region. *Photogrammetric Engineering and Remote Sensing*, 68 (10): 1073-1082
10. **Yang, X.**, 2002, Satellite Monitoring of Urban Spatial Growth in the Atlanta Metropolitan Region. *Photogrammetric Engineering and Remote Sensing*, 68 (7): 725-734
11. **Yang, X.** and Lo, C. P., 2002, Using a Time Series of Normalized Satellite Imagery to Detect Land Use/Cover Change in the Atlanta, Georgia Metropolitan Area. *International Journal of Remote Sensing*, 23(9):1775-1798.
12. **Yang, X.** and Lo, C. P., 2000, Relative Radiometric Normalization Performance for Change Detection from Multi-Date Satellite Images. *Photogrammetric Engineering and Remote Sensing*, 66(8):967-980
13. **Yang, X.** and Hodler, T., 2000, Visual and Statistical Comparisons of Surface Modeling Techniques for Point Based Environmental Data. *Cartography and Geographic Information Science*, 27(2):165-175
14. **Yang, X.**, Damen, M. C. J., and Zuidam, van, R., 1999a, Satellite Remote Sensing and GIS for the Analysis of Channel Migration Changes in the Active Yellow River Delta. *International Journal of Applied Earth Observation and Geoinformation* (formerly ITC Journal), 1(2):146-157
15. **Yang, X.**, Damen, M. C. J., and Zuidam, van, R., 1999b, Use of Thematic Mapper Imagery and a Geographic Information System for Geomorphologic Mapping in a Large Deltaic Lowland Environment. *International Journal of Remote Sensing*, 20(4):568-591
16. **Yang, X.**, 1994a, Water Resources and Rational Utilization in Shandong Peninsula, China. *Journal of Scientia Geographica Sinica*, 14(3): 240-247 (in Chinese)
17. **Yang, X.**, 1994b, Planning Strategies for Tourism Industry Development in Fuzhou, China. *Journal of Tropical Geography*, 10(2):186-193 (in Chinese)
18. **Yang, X.**, 1993, A Survey of Tourism Resources and the Strategies for Tourism Industry Development for Pinnan Islands, Fujian Province, China. *Journal of Tourism Sciences*, No.4, 40-45 (in Chinese)
19. **Yang, X.**, Lin, W. and Yin, Z., 1991, Human Activities and Salt Water Intrusion. *Journal of Regional Study and Development*, 10(4) (in Chinese)
20. Yin, Z., Lin, W., and **Yang, X.**, 1991, Status and Problems of Sea Water Intrusion Research. *Journal of Geographic Research*, 10(3):78-86 (in Chinese)

Refereed Book Chapters

1. **Yang, X.**,1994, Natural Hazards: Characteristics, Impacts, Causes and Control Measures in Eastern Shandong Peninsula, China. *Huaihe Research* (2)
2. **Yang, X.**, He, W., Kang, Y., Liu, H., and Xue, H.,1994, Planning Scheme for Some Key Tourism Areas in Pinnan Islands. In W. Lin and T. Wang (edt.), *Recreational Resources in Pinnan Islands, China*. Oceanic Press, Beijing, China, pp 148-191
3. **Yang, X.**, 1993, An Assessment of Tourism Resources and Strategies for Future Development in Pinnan Islands, Fujian Province, China. In: G. Chen (edt.), *A Study of Tourism Industry in Pinnan Islands, Fuzhou*. Huayi Press, China

Book Review

1. **Yang, X.**, 2003, Observing Our Environment from Space: New Solutions for a New Millennium. *Photogrammetric Record*, 18(101): 88-89

Full Papers in Conference Proceedings

1. **Yang, X.**, 2005, Cartographic Visualization Techniques For Coastal Watershed Assessment. Proceedings of the 22th ICA (International Cartographic Association) Conference, A Coruna, Spain (in press)
2. **Yang, X.**, 2004, Predicting Urban Growth with Remote Sensing and Dynamic Spatial Modelling. Proceedings of the 20th Congress of the International Society for Photogrammetry and Remote Sensing, Istanbul, Turkey
3. **Yang, X.**, 2003, Impacts of Image Resolution Upon Land Use/Cover Classification in an Urban Environment. Proceedings of ASPRS (American Society for Photogrammetry and Remote Sensing) 2003 Annual Convention, Anchorage, AK
4. Lo, C. P. and **Yang, X.**, 2002, Integrated GIS and remote sensing based dynamic modeling of urban growth in the Atlanta metropolitan. Proceedings of ASPRS (American Society for Photogrammetry and Remote Sensing) 2002 Annual Convention, Washington D.C.
5. **Yang, X.**, 2001, Visualizing environmental hazard through interactive and animated cartographic techniques. Proceedings of the 20th ICA (International Cartographic Association) Conference, Beijing, China
6. Lo, C. P. and **Yang, X.**, 2000, Land use/cover change in Atlanta metropolitan region. Proceedings of ASPRS (American Society for Photogrammetry and Remote Sensing) 2000 Annual Convention, Washington D. C.
7. Lo, C. P. and **Yang, X.**, 1998, Some Practical Considerations of Relative Radiometric Normalization of Multi-date Landsat MSS Data for Land Use Change Detection. Proceedings of ASPRS (American Society for Photogrammetry and Remote Sensing) and RTL 1998 Annual Convention, Tampa, Florida
8. **Yang, X.**, 1998, A Comparison of Spatial Interpolation Algorithms in Point Based Environmental Data Processing. Proceedings of ASPRS (American Society for Photogrammetry and Remote Sensing) and RTL 1998 Annual Convention, Tempe, Florida
9. **Yang, X.**, 1997a, GIS Modeling in Coastal Flooding Analysis: A Case Study in the Yellow River Delta, China. Proceedings of 1997 International Geosciences and Remote Sensing Symposium, Singapore (EI indexed)
10. **Yang, X.**, 1997b, Applications of Satellite Remote Sensing and GIS for Landforms Mapping

- In Large Scale Deltaic Environments. Proceedings of 12th International Geological Remote Sensing Symposium and Workshops, Denver, Colorado
11. **Yang, X.**, 1997c, Time Sequential Digital Mapping from Satellite Imagery and GIS for Characterizing Morphodynamics in A Large River Delta. Proceeding of 18th ICA (International Cartographic Conference), Stockholm, Sweden
 12. **Yang, X.**, 1996, Satellite Monitoring of the Environmental Changes in the Active Yellow River Delta, China. International Archives for Photogrammetry and Remote Sensing, XXXI, B7, VII, 801- 806
 13. **Yang, X.**, Damen, M. C. J., van Zuidam, R., van Gelder, A., van den Berg, J., and Cheng, G., 1996, Satellite Remote Sensing and Geographic Information Systems for Monitoring Morphodynamics of the Active Yellow River Delta, China. Proceedings of 1996 International Geosciences and Remote Sensing Symposium (EI indexed)
 14. Yin, Z. and **Yang, X.**, 1991, Natural Hazards and Their Control Measures in the Coastal Area of Shandong Province, China. Proceedings of Symposium on Hazards Reduction and Development in the Coastal Area of China (in Chinese)
 15. **Yang, X.**, and Yin, Z. 1991, Geomorphologic Environment and Hazard Implications in the Coastal Area of Shandong Province, China. Proceedings of Symposium on Geomorphic Processing and Environmental Management (in Chinese)
 16. Shao, Z. and **Yang, X.**, 1990, Palaeogeographic Environmental Change of Kukebai Stage in Western Tarim Basin. Proceedings of Symposium on Palaeogeography (in Chinese)

Manuscripts Under Review or in Preparation

1. Estimating Urban Imperviousness Index with Remotely Sensed Imagery (revised and resubmitted to the International Journal of Remote Sensing; under review)
2. Establishing an Environmental Information System For Integrated Estuarine Ecosystem Assessment (to be submitted to an international journal)
3. Integrating Remote Sensing, GIS and Dynamic Model for Urban Growth Simulations (a book chapter)
4. GIS for Coastal and Estuarine Management (a book chapter)
5. A Scale-Dependent Analysis of the Driving Forces for Landscape Changes in a Coastal City (in process)
6. Predicting Estuarine Water Quality with Landscape and Socio-Economic Metrics (to be submitted to an international journal)
7. A Scale-Dependent Analysis of the Relationship between Landscape Metrics and Water Quality (in process)
8. Synergistic Use of LIDAR and ADAR Data for High-Resolution Hydrological Network Modeling In Coastal Lowlands (in process)
9. Visualizing Environmental Hazards through Interactive and Animated Cartography (in process)
10. A Dynamic Modeling Approach to Imaging the Spatial Consequences of Future Urban Growth under Different Development Conditions (in process)
11. Remote Sensing and GIS for Urban Analyses: Problems and Challenges (in process)
12. Impacts of Image Resolution Upon Landscape Classification in an Urban Environment (in process)

13. A Scale Dependent Analysis of Socio-Economic and Biophysical Driving Forces for Landscape Changes in Atlanta Metropolitan Region (in process)
14. Satellite Monitoring of Dynamic Environmental Changes in the Active Yellow River Delta (in process)
15. Remote Sensing of Channel Platform Changes in the Yellow River Delta, China (in process)
16. Mapping abandoned river channels in the Yellow River Delta, China (in process)

PAPER PRESENTATIONS AT PROFESSIONAL MEETINGS

1. *The 22th Conference of the International Cartographic Association (ICA)*. **Yang, X.**, 2005, Cartographic Visualization Techniques For Coastal Watershed Assessment. July 2005, A Coruna, Spain (in process)
2. *The 5th International Symposium of Remote Sensing of the Urban Areas*. **Yang, X.**, 2005, Geographic Accessibility and Landscape Change in an Urban Environment. March 2005, Tempe, Arizona (in process)
3. *The 3rd International Symposium Remote Sensing and Data Fusion Over Urban Areas*. **Yang, X.**, Liu, Z, and Chen, L., 2005, An Assessment of Three Image Classification Methods for Urban Landscape Characterization. March 2005, Tempe, Arizona (in process)
4. *The 101st AAG (Association of American Geographers) Annual Meeting*. **Yang, X.**, 2005, Linking Estuarine Water Quality with Landscape and Socio-Economic Metrics Using GIS and Spatial Modeling Techniques. April 2005. Denver, Colorado (in process)
5. *2004 EaGle (Estuary and Great Lakes) Annual Meeting*. **Yang, X.** Predicting Estuarine Water Quality with Landscape and Socio-Economic Metrics. September 2004. Duluth, Minnesota.
6. *The 20th Congress of International Society for Photogrammetry and Remote Sensing*. **Yang, X.**, 2004, Predicting Urban Growth with Remote Sensing and Dynamic Spatial Modelling. July 2004, Istanbul, Turkey
7. *The 100th AAG (Association of American Geographers) Annual Meeting*. **Yang, X.** and Liu, Z., 2004, Use of Remote Sensing and Landscape Metrics to Analyze Estuarine Landscape Changing Dynamics. March 2004. Philadelphia, PA
8. *The 100th AAG (Association of American Geographers) Annual Meeting*. **Yang, X.** and Liu, Z., 2004, Predicting Estuarine Water Quality with Landscape and Socio-Economic Metrics March 2004. Philadelphia, Pennsylvania
9. *2003 EaGle (Estuary and Great Lakes) Annual Meeting*. **Yang, X.** and Liu, Z., 2003, Establishing an Environmental Information System for Integrated Estuarine Ecosystem Assessment. December 2003, Bodega Bay, California.
10. *2003 SEDAAG (Southeastern Division of the American Association of Geographers) Annual Meeting*. **Yang, X.** and Liu, Z., 2003, Establishing an Environmental Information System for Integrated Estuarine Ecosystem Assessment. November 2003, Charlotte, North Carolina.
11. *2003 SEDAAG (Southeastern Division of the American Association of Geographers) Annual Meeting*. **Yang, X.** 2003. Integrating LIDAR and ADAR Data For High-Resolution Hydrological Modeling in a Tidal Marsh and Wetland Environment. November 2003, Charlotte, North Carolina.

12. *2003 ASPRS (American Society for Photogrammetry and Remote Sensing) Annual Meeting.* **Yang, X.**, 2003, Impacts of Image Resolution Upon Landscape Classification in an Urban Environment: An Experiment. May 2003, Anchorage, Alaska
13. *The 99th AAG (Association of American Geographers) Annual Meeting.* **Yang, X.**, 2003, Landscape Change Mapping in Pensacola Estuarine Drainage Area. March 2003, New Orleans, Louisiana
14. *The 98th AAG (Association of American Geographers) Annual Meeting.* **Yang, X.**, 2002, A Dynamic Modeling Approach to Imaging the Spatial Consequences of Future Urban Growth in a Rapidly Suburbanizing Environment. March 2002, Los Angeles, California
15. *2002 ASPRS (American Society for Photogrammetry and Remote Sensing) Annual Meeting,* Lo, C.P. and **Yang, X.**, 2002, Integrated GIS and Remote Sensing based Dynamic Modeling of Urban Growth in the Atlanta Metropolitan. April 2002, Washington DC
16. *The 20th ICA (International Cartographic Association) Conference.* **Yang, X.**, 2001, Visualizing Environmental Hazard Through Interactive And Animated Cartographic Techniques. August, 2001, Beijing, China
17. *The 97th AAG (Association of American Geographers) Annual Meeting.* **Yang, X.**, 2001, Satellite Monitoring of Urban Spatial Growth in the Atlanta Metropolitan Region. February, 2001, New York City
18. *2000 SEGAAG (Southeastern Division of AAG) Annual Meeting.* **Yang, X.** and C.P. Lo, 2000, Modeling Urban Growth and Landscape Change in the Atlanta Metropolitan Region. November, 2000, Chapel Hill, North Carolina
19. *2000 Applied Geography Conference.* **Yang, X.**, 2000, Satellite Monitoring of Urban Spatial Growth in the Atlanta Metropolitan Region. October, 2000, Tampa, Florida
20. *The 96th AAG (Association of American Geographers) Annual Meeting.* **Yang, X.** and Lo, C. P., 2000, Dynamics of Land Use/Cover Changes in the Atlanta, Georgia Metropolitan Region: 1973--1999. April 4-8, 2000, Pittsburgh, Pennsylvania
21. *1999 Georgia GIS Conference.* Lo, C. P. and **Yang, X.**, 1999, Developing a Land Use/Cover Database for Atlanta Using Time Sequential Satellite Images. September 27- 29, 1999, Athens, Georgia
22. *The 95th AAG (Association of American Geographers) Annual Meeting.* **Yang, X.** and Lo, C. P., 1999, Using a Time Series of Normalized Landsat MSS and TM Images to Detect Land Use/Cover Changes in the Atlanta, Georgia Metropolitan Area. March 23--28, 1999, Honolulu, Hawaii
23. *World Deltas Symposium.* **Yang, X.** and Damen, M. C. J., 1998, A Remote Sensing Study of Dynamic Environmental Changes of the Active Yellow River Delta, China. August 23-29, 1998, New Orleans, Louisiana (Invited Presentation)
24. *The 94th AAG (Association of American Geographers) Annual Meeting.* **Yang, X.** and Lo, C. P., 1998, An Operational Approach to Land Use and Land Cover Change Mapping Using Multi Temporal Landsat MSS Imagery. March 23-29, 1998, Boston, Massachusetts
25. *1998 ASPRS- RTL Annual Convention.* Lo, C. P. and **Yang, X.**, 1998, Some Practical Considerations of Relative Radiometric Normalization of Multidate Landsat MSS Data for Land Use Change Detection. March 31--April 3, 1998, Tampa, Florida
26. *1998 ASPRS-RTL Annual Convention.* **Yang, X.**, 1998, Comparison of Spatial Interpolation Algorithms in Point Based Environmental Data Processing. March 31-April 3, 1998, Tampa,

Florida

27. *The 12th International Geological Remote Sensing Symposium and Workshops*. **Yang, X.**, 1997a, Applications of Satellite Remote Sensing and GIS for Landforms Mapping In Large Scale Deltaic Environments. November, 1997, Denver, Colorado
28. *1997 Annual Meeting of Georgia Academy of Sciences*. **Yang, X.**, 1997b. Spatial Modeling for Coastal Flooding Analysis in a Large River Delta. April 25-27, 1997, Carrollton, Georgia
29. *1996 SEDAAAG Annual Meeting*. **Yang, X.**, 1996a. An Integrated Image Processing GIS Approach for Characterizing Fluvio Morphodynamics in the Active Yellow River Delta, China. November 23-25, Athens, Georgia
30. *The 18th Congress, The International Society for Photogrammetry and Remote Sensing (ISPRS)*. **Yang, X.**, 1996b. Satellite Monitoring of the Environmental Changes in the Active Yellow River Delta, China. July 9-22, 1996, Vienna, Austria
31. *1996 International Geosciences and Remote Sensing Symposium*. **Yang, X.**, Damen, M. C. J., van Zuidam, R., van Gelder, van den Berg, and Cheng, G., 1996, Satellite Remote Sensing and Geographic Information Systems for Monitoring Morphodynamics of the Active Yellow River Delta, China. May 17-21, 1996, Lincoln, Nebraska
32. *Symposium on Geomorphologic Processing and Environmental Management*. **Yang, X.** and Yin, Z. 1991, Geomorphic Environment and Hazard Implications in the Coastal Area of Shandong Province, China. 1991, Beijing, China
33. *Symposium on Hazards Reduction and Development in the Coastal Area of China*. Yin, Z. and **Yang, X.**, 1991, Natural Hazards and Their Control Measures in the Coastal Area of Shandong Province, China. 1991, Yantai, China
34. *The 3rd Symposium on Palaeogeography*. Shao, Z. and **Yang, X.**, 1990, Palaeogeographic Environmental Change of Kukebai Stage in Western Tarim Basin. Xuzhou, China

COLLOQUIUM OR SEMINAR PRESENTATIONS

1. Chinese Academy of Sciences, Research Center for Eco-environmental Sciences. "Urban Dynamics: Research Status and Major Challenges." May 2004
2. Auburn University, Department of Geography and Geology. "Monitoring Urban Spatial Growth: A Remote Sensing Perspective," February 2004
3. University of California at Berkeley, Department of Environmental Science, Policy, and Management. "Monitoring Urban Spatial Growth: A Remote Sensing Perspective," December 2003
4. Florida State University, Department of Geography. "Integration of Geographic Information Technologies for Urban Change Analysis.", March 2003
5. Florida Atlantic University, Department of Geography and Geology. "Integration of Geographic Information Technologies for Urban Change Analysis.", March 2003
6. University of Oklahoma, Department of Geography. "Integration of Geographic Information Technologies for Urban Change Analysis.", December 2002
7. Clarke University, School of Geography. "Integration of Geographic Information Technologies for Urban Change Analysis.", February 2002
8. University of West Florida, Department of Biology. "Integration of Remote Sensing and GIS

- for Environmental Change Studies." March 2001
9. University of Wisconsin at Milwaukee, Department of Geography. "Integration of Image Analysis and Dynamic Modeling with GIS in a Rapidly Suburbanizing Environment." February 2000
 10. Oklahoma State University, Department of Geography. "Satellite Remote Sensing of Land Use/Cover Changes in Atlanta Metropolitan Region." March 1999
 11. Syracuse University, Department of Geography. "Integration of Remote Sensing and GIS for Environmental Change Studies." October 1998

PROFESSIONAL SERVICES

Journal Guest Editorships

- *International Journal of Remote Sensing (IIRS)*. 2003-2005. Remote Sensing and GIS for coastal and estuarine ecosystem research
- *Journal of Computers, Environment and Urban Systems (CEUS)*. 2003-2004. Urban Remote Sensing
- *Journal of Photogrammetric Engineering and Remote Sensing*. 2002-2003. Applications of Remote Sensing and GIS for Urban Analyses

Journal or Book Chapter Reviewers

- Journal of Photogrammetric Engineering and Remote Sensing (PE&RS)(2002-)
- International Journal of Geographical Information Science (2003-)
- International Journal of Remote Sensing (1999-)
- Remote Sensing of Environment (2004-)
- Journal of Urban Geography (2004-)
- Journal of Environmental Management (2003-)
- Journal of Landscape Ecology (2003-)
- Journal of Cartography and Geographic Information Science (2003-)
- Journal of Coastal Research (1999-)
- Journal of Environmental Informatics (2003-)
- Journal of Public Works, Management & Policy (2003-)
- International Journal of Information Fusion (2003-)
- Journal of Computers and Geosciences (2005-)
- Journal of Marine Geodesy (2002-)
- Journal of GeoCarto International (2001-)
- Journal of Spatial Hydrology (2001-)
- McGraw-Hill Higher Education (Publisher, 2001)
- GeoDynamics(Book; 2004)
- Remote Sensing of Urban and Sub-Urban Areas (Book; 2004)

Grant Program Reviewers

- External Reviewer, National Science Foundation, United States (2004-)
- Reviewer, AAG Remote Sensing Specialty Group 2004 Early Career Award Program (2004)

- External Reviewer, The Cooperative Institute for Coastal and Estuarine Environmental Technology (CICEET; <http://ciceet.unh.edu>), a joint partnership between the National Oceanic Atmospheric Administration (NOAA) and the University of New Hampshire (2002)
- External Reviewer, Committee for Research and Exploration, National Geographic Society (2002---
- Review Panelist, Louisiana Sea Grant College Program (2001)

Services to Professional Societies

- Member, Scientific Committee, the Fifth International Conference on Urban Remote Sensing, 14-16 March 2005, Tempe, Arizona, USA
- Member, Scientific Committee, the Fourth International Conference on Urban Remote Sensing, 27-29 June 2003, Regensburg, Germany
- US Representative, Commission for Mapping From Satellite Imagery, International Cartography Association (ICA) (2001 -)
- Member, Awards and Scholarship Committee, American Society for Photogrammetry and Remote Sensing (ASPRS) (2002--)
- Organizer for Two Special Paper Sessions "Remote Sensing and GIS for Urban Analyses", the 101st AAG (Association of American Geographers) Annual Meeting (2004-2005)
- Organizer for Two Special Paper Session "Remote Sensing and GIS for Estuarine Ecosystem Analysis", the 101st AAG (Association of American Geographers) Annual Meeting (2004-2005)
- Organizer for Three Special Paper Sessions "Remote Sensing and GIS for Urban Analyses", the 100th AAG (Association of American Geographers) Annual Meeting (2003-2004)
- Organizer for One Special Paper Session "Remote Sensing and GIS for Estuarine Ecosystem Analysis", the 100th AAG (Association of American Geographers) Annual Meeting (2003-2004)
- Organizer for Two Special Paper Sessions "Remote Sensing and GIS for Urban Analyses", the 99th AAG (Association of American Geographers) Annual Meeting (2002-2003)
- Organizer for One Special Paper Session "GIS and Remote Sensing Research within EPA EAGLE (Estuarine and Great Lake) Program, the 99th AAG (Association of American Geographers) Annual Meeting (2002-2003)
- Organizer for One Special Panel Discussion Session "Fundamental Considerations in Teaching Foundation Level GIS", the 99th AAG (Association of American Geographers) Annual Meeting (2002-2003)
- Organizer and Chair for Three Special Sessions "Remote Sensing of Urban Sprawl", the 98th AAG (Association of American Geographers) Annual Meeting (2002)
- Organizer and Chair for Two Special Sessions "Remote Sensing of Urban Sprawl", 97th AAG (Association of American Geographers) Annual Meeting (2001)
- Paper discussant, 2000 SEDAAG annual meeting (2000)
- Chair, Session "Urban Remote Sensing and GIS", 1999 ASPRS (American Society for Photogrammetry and Remote Sensing) Annual Convention, Portland, Oregon (1999)

University/Departmental Services

- Coordinator, Department of Geography Colloquium Series, Florida State University

(2004-now)

- Member, GIS Search Committee, Department of Environmental Studies, University of West Florida (2002)
- Member, TIP (Teaching Incentive Program) Award Committee, College of Arts and Sciences, University of West Florida (2002-2003)
- Member of Council of College of Arts and Sciences, University of West Florida (2001-2004)
- Undergraduate Advisor, Department of Environmental Studies, University of West Florida (2001-)
- Chair, GIS Search Committee, Department of Environmental Studies, University of West Florida (2001)
- Member, Geomorphology/Hydrology Faculty Position Search Committee, Department of Environmental Studies, University of West Florida (2001-2002)
- Faculty Representative, Department of Geography, University of Georgia (1999-2000)
- Local Organizing Committee, Southeast Geography Graduate Meeting, Athens, GA (1998)

MEMBERSHIPS OF PROFESSIONAL SOCIETIES

- American Association for the Advancement of Science (AAAS)
- Association of American Geographers (AAG)
- American Society for Photogrammetry and Remote Sensing (ASPRS)
- International Association of Landscape Ecology (IALE)
- Remote Sensing and Photogrammetry Society (RSPS-UK)
- Southeastern Division, Association of American Geographers (SEDAAG)

TECHNICAL SKILLS

- **Computer Programming:** C, C++, Visual Basic, script programming (ARCVIEW AVENUE and ARC/INFO SML)
- **Computer Operation Systems:** UNIX, WINDOWS95/98/NT/2000/XP, and MAC OS
- **Computer Software Packages:** Remote Sensing (IMAGINE, IDRISI, ENVI, ILWIS, DMS, PCI, MAPSHEET etc.), GIS (ARCGIS, ARC/INFO, ARCVIEW, IMAGINE, IDRISI, MAPTITUDE, ENVI, ILWIS, DMS, MAPINFO, ATLAS GIS, SURFER, etc.), Spatial Analysis (SPSS, STATIST, EXCEL, ACCESS, QUATTRO PRO, SAS, etc.). Graphics (COREL DRAW, PHOTOPAINT, PRESENTATION, MOVIE, FREEHAND, ADOBE ILLUSTRATOR, ADOBE PHOTOSHOP, MICROMEDIA DIRECTOR, MS POWERPOINT, etc.), and Other lesser packages
- **Languages:** English and Chinese (native language)

PROFESSIONAL TRAINING

- **ESRI Virtual Training Courses:** Learning ArcGIS I (for ArcView 8, ArcEditor 8, and ArcInfo 8); Learning ArcGIS II: Presenting Information (for ArcView 8, ArcEditor 8, and

ArcInfo 8); Creating, Editing, and Managing Geodatabases; Working With Rasters in ArcGIS; Learning ArcGIS Spatial Analyst; Learning ArcGIS 3D Analyst; Introduction to Geostatistical Analysis; Introduction to ArcInfo using ArcTools; Customizing ArcIMS 4; Introduction to Visual Basic for ESRI Software

- **ERDAS Training Courses:** Advancing with ERDAS IMAGINE, Spatial Modeling and Expert Systems; IMAGINE Virtual GIS

ITEMS OF FEATURED NEWS ON RESEARCH

- A CNN (Cable News Network) story "Team probes Atlanta heat island," March 24, 1999. [Http://www.cnn.com/NATURE/9903/25/heat.island.enn/](http://www.cnn.com/NATURE/9903/25/heat.island.enn/)
- A research news of University of Georgia Column "Hotlanta-Geographers demonstrate Atlanta is an 'urban heat island' that creates its own weather and causes storms", April 12, 1999 . Also [Http://www.uga.edu/columns/041299/frontpage.html](http://www.uga.edu/columns/041299/frontpage.html)
- A NASA Goddard Space Flight Center story "Atlanta's Urban Heat Island", April 8, 1999. [Http://svs.gsfc.nasa.gov/imagewall/LandSat/atlanta_heat_background.html](http://svs.gsfc.nasa.gov/imagewall/LandSat/atlanta_heat_background.html)
- A NASA Marshall Flight Center story "NASA team finds Atlanta influences its own weather", March 24, 1999. [Http://www1.msfc.nasa.gov/NEWSROOM/news/releases/1999/99-053.html](http://www1.msfc.nasa.gov/NEWSROOM/news/releases/1999/99-053.html)
- A Science Daily Story "Atlanta An 'Urban Heat Island,' With Higher Temperatures Than Surrounding Area, New NASA Study Shows", March 25, 1999. [Http://www.sciencedaily.com/releases/1999/03/990325052848.htm](http://www.sciencedaily.com/releases/1999/03/990325052848.htm)
- A Science Daily Story "NASA Team Finds Atlanta Influences Its Own Weather", March 25, 1999. [Http://www.sciencedaily.com/releases/1999/03/990325104705.htm](http://www.sciencedaily.com/releases/1999/03/990325104705.htm)
- A Junk Science Story "Atlanta An "Urban Heat Island," With Higher Temperatures Than Surrounding Area, New NASA Study Shows A, March 24, 1999. [Http://www.cop5.org/mar99/urbanhi.htm](http://www.cop5.org/mar99/urbanhi.htm)
- A Newswise Story "Atlanta Is an 'Urban Heat Island' , March 19, 1999. [Http://www.newswise.com/articles/1999/3/ATLHEAT.UGA.html](http://www.newswise.com/articles/1999/3/ATLHEAT.UGA.html)
- An EurekAlert Story "Atlanta An 'Urban Heat Island', With Higher Temperatures Than Surrounding Area, New NASA Study Shows", March 24, 1999 [Http://www.eurekalert.org/releases/uga-aau031699.htm](http://www.eurekalert.org/releases/uga-aau031699.htm)

GRADUATE/UNDERGRADUATE STUDENT ADVISEMENT

Ph.D. students (Florida State University)

- Barry Bitters (major advisor)
- Melodie Kertis (major advisor)
- Jialing Wang (major advisor)
- Shrinidhi Ambinakudige (member)
- Shea Rose (member)
- Jeff Ueland (member)

- George Cole (member)

Master's students (Florida State University)

- Richard Verdi (advisor)
- Jeff Read (member)
- Erin Westfall (member)

Graduate DIS Students (Florida State University)

- Richard Verdi (twice; 6 hours)
- Bryce Reed (three times; 9 hours)
- Barry Bitters (once; 3 hours)
- Melodie Kertis (once; 3 hours)
- Casey Ogden (twice; 6 hours)
- Chris Lesser (three times; 9 hours)
- Erin Westfall (once; 1 hour)

Students Under GIS Certificate Program (University of West Florida)

- Jeff Read
- Teri Ball
- Kristal Flanders
- Angela Hall
- Rex James
- Nicole Koch
- Brooke Leftwich
- Marilyn Montgomery
- Drew Rollman
- Sylvia Cowen