

## Xiaobai (Angela) Yao Curriculum Vitae

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### Assistant Professor

08/2002- present

Department of Geography, University of Georgia

### EDUCATION

**PhD**, Geography (GIS and Urban Regional Analysis), 1997-2002  
University at Buffalo, the State University of New York

**MS** (with Distinction), GIS for urban applications, 1995-1997  
International Institute of Aerospace Survey and Earth Sciences (ITC), the Netherlands

**BS** (with Top Honor), GIS for urban planning and management, 1986-1990  
Wuhan Technical University of Surveying and Mapping (WTUSM) – now Wuhan University, China

### RESEARCH INTERESTS

Qualitative GIS ; Urban Land Use and Transportation Modeling ; Spatial Data Mining

### SELECTED PUBLICATIONS

**Yao, X.** Reasoning Qualitative Spatial Relations in GIS. In M. Madden (ed) *Manual of Geographic Information Systems*. 1<sup>st</sup> edition. ASPRS publisher. (Forthcoming)

**Yao, X.** and J.C. Thill. Neuro-Fuzzy Modeling of Context-Contingent Proximity Relations. *Geographical Analysis: An International Journal of Theoretical Geography*. (Forthcoming)

Jiang, B. and **Yao, X.** Location-Based Services and GIS in Perspective. *Computers, Environment and Urban Systems*. (In Press)

**Yao, X.** and Thill, J.C. 2006. Spatial Queries With Qualitative Locations In Spatial Information Systems. *Computers, Environment and Urban Systems*. 30(4):485-502.

**Yao, X.** and Thill, J.C. 2005. How Far Is Too Far – A Statistical Approach To Proximity Modeling. *Transactions in GIS*. Vol. 9(2): 157-178.

**Yao, X.** and B.Jiang. 2005. Visualization of Qualitative Locations. *Cartography and Geographic Information Science*. 32(4):219-229.

Thill, J.C. Kretzschmar, W.A., Casas, I. and **Yao, X.** 2005. Detecting geographic and socio-economic associations in English dialect features with self-organising maps. In Agarwal, P. and Skupin, A. (Eds) *Self-Organising Maps: Applications in Geographic Information Science*, Wiley.

Thill, J.C. and **Yao, X.** 1999. Urban Land Management in Transitional Countries: A Decision Support Prototype for Shanghai. In J.C. Thill (ed) *Spatial Multicriteria Decision Making and Analysis: A Geographic Information Sciences Approach*, Brookfield, VT: Ashgate. pp. 175-197.

Fu, L. **Yao, X.** 1995. Constructing the Place Name Information Systems in Shanghai. *Shanghai Urban Planning* (in Chinese).

## **SELECTED GRANTS**

Principal Investigator. Investigating Urban Spatial Transformation in Post-Reform Beijing, China. National Geographical Society. \$12,000. 2006-2007.

Co-organizer with Amit Sheth, Lynn Usery, and Budak Arpinar. Homeland Security Workshop grant. University Consortium for Geographic Information Sciences. \$15,000. 2003.

Principal Investigator. President Venture Fund. President's Office. *Examining Potential Demand of Public Transit for Commuting Trips*. \$1,644. 2006.

Sarah Moss Fellowship (Faculty Development Grant). University of Georgia. *Agent-Based Modeling*. \$5000. 2004-2005.

Principal Investigator. Faculty Research Grant. University of Georgia Research Foundation. *Spatial Data Mining for Proximity Modeling*. \$5,500. 2003.

Principal Investigator. University at Buffalo, the State University of New York. Mark Diamond Research Grant. *Qualitative Georeferencing for Geospatial Information Systems*. \$1,200, 2001-2002.

## **SELECTED AWARDS AND HONORS**

2005. ESRI-UCGIS Young Scholar Award. UCGIS.

2004. Sarah Moss Fellowship Award. University of Georgia, 2004-2005.

2004. Nominee (to represent SUNY Buffalo) of Outstanding Dissertation in Social Science and Education for the 2004 NAGS (Northeastern Association of Graduate Schools)'s Outstanding Dissertation Award.

2003. Invited participant with travel grant, UCGIS Visualization and Knowledge Discovery Workshop. Lansdowne, VA. Nov. 17-20, 2003.

2002. Best Paper Award (first place), GIS Specialty Group Student Paper Competition, AAG Annual Meeting, Los Angeles, CA.

2000. Student Travel Award to the conference of "GIScience 2000," Savannah, GA, NCGIA.