February 18, 2015

Professor László Zentai  
Secretary-General & Treasurer, International Cartographic Association  
Department of Cartography and Geoinformatics  
Eötvös University  
H-1117 Budapest, Pázmány Péter sétány 1/A  
Hungary

Dear Secretary-General Zentai:

As the Chair of the United States National Committee (USNC) to the International Cartographic Association (ICA), on behalf of the United States of America, I am pleased to submit a nomination for a Commission on Geospatial Analysis and Modeling. The information on terms of reference, chair, Xiaobai (Angela) Yao (USA) and vice-chair, Bin Jiang (Sweden), are attached.

Sincerely,

E. Lynn Usery  
Chair, U.S. National Committee to the International Cartographic Association
Xiaobai Angela Yao

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University of Georgia
Athens, GA 30605

Professional Preparation
2002   Ph.D.   Geography, University at Buffalo, the State University of New York
1997   M.S.    GIS for urban applications, International Institute of Aerospace Survey and Earth Sciences (ITC), the Netherlands
1990   B.S.    GIS for urban planning and management, Wuhan University (formerly known as Wuhan Technical Univ. of Surveying & Mapping), China

Appointment
2008 - present     Associate Professor     Department of Geography, University of Georgia
2002 -2008         Assistant Professor      Department of Geography, University of Georgia, USA

RESEARCH INTERESTS
Geospatial Analysis and Modeling; Urban System; Network Science; Public Health

Publications
Books

Peer-reviewed Journal Articles
(*indicates a graduate advisee)


(Jote: The journal article has been invited for reprint in one edited book)


(Note: The journal article has been invited for reprints in two edited books).


**Book Chapters**


Synergistic Activities

1. Co-organizing an International Conference on Location-based Social Media Data (planned for Mar13-14, 2015, Athens, GA USA)

Current Grants

Pl. Geosimulation of Urban Growth and Traffic Patterns Based on Social Media Data. with B. Jiang, S. Holloway, X.Wei. Ministry of Education of China Key Laboratory (at Tsinghua University) Open Research Grant. 2014-2016. CNY¥400,000


Pl, Modeling the impact of Urban Transportation on Beijing’s Air Quality. Chinese Academy of Science Research Center of Eco-Environmental Sciences. 2012-2014. CNY¥150,000

Pl. International Conference on Location-based Social Media Data Analysis. $4000. Dept of Geography, the University of Georgia.

Collaborators and other affiliations

Graduate Advisor
Jean-Claude Thill   Dept.of Geography, University at North Carolina at Charlotte

Doctoral advisee
Woo Jang, assistant professor, Minnesota State University
Richard Smith, assistant professor, Texas State University at Corpus Cristi
Hwahwan Kim, assistant professor, Chonnam National University, South Korea
Xuebin Wei, doctoral candidate, University of Georgia
Qinjin Fan, doctoral student, University of Georgia
Bin Jiang - CV/Scientific qualifications

1. Doctoral degree
Year: 1996-02
Discipline/subject area: Geographic Information Systems (GIS), Title of thesis: Fuzzy overlay analysis and visualization in GIS
All supervisors:
Prof. Dr. Wolfgang Kainz, Department of Geography and Regional Research, University of Vienna, Universitaetsstr. 7, A-1010 Vienna, Austria, Tel.: +43 (1) 4277 48640, Fax: +43 (1) 4277 9486, Email: w.kainz@univie.ac.at
Prof. Dr. Ferjan Ormeling, Department of Cartography, Faculty of Geographical Science, University of Utrecht, The Netherlands, Tel: +31 30 253 1373, Fax: +31 30 254 0604, Email: f.ormeling@geog.uu.nl

2. Postdoctoral visits
Year: 1996-03 till 1996-12, Position: postdoctoral fellow with Institute of Geographic Sciences, Free University of Berlin

3. Docent (Senior lecturer) level (year)
Year: 2005 docent in GeoInformatics at Royal Institute of Technology (KTH)

4. Current position, period of appointment, time for research in the position
Full professor (2007-04), about 50% time for research

5. Previous positions and periods of appointment
Senior Lecturer with the University of Gävle, Sweden, 2000-01 till 2007-03, about 40% time for research
Senior Research Fellow with Centre for Advanced Spatial Analysis, University College London, 1997-01 till 1999-12

6. Distinctions and grants
• A five-year PhD post 2.0 M SEK granted together with Prof. Mats Sandberg for hiring a PhD student by University of Gävle to work on project “SENSORCITY: GIS-based Mobile Sensor Networks for Monitoring Environmental Quality and Human Exposures for Sustainable Built Environments” 2012-2015. • JSPS Invitation Fellowship for joint research at Tokyo Institute of Technology, Japan, 2012. • Collaboration grant 1.0 M SEK by the Swedish Research Council FORMAS on retail and mobility patterns (Resemönster), 2011-2013. • Grant from NordForsk SEK 0.5M to extend two more years for the Nordic Network in Geographic Information Science (NordGISci, http://fromto.hig.org/~bjg/NordGI5ci), period 01/01/2009 – 31/12/2010. • A three-year PhD studentship 288 000 SEK granted to me for hiring a PhD student by a local GIS company Future Position X, 01/01/2009. • RGC funded grant 360 000 HK$ for the project entitled “Studying the Pattern of the Hong Kong Street Network: a topological perspective”. • Research grant worth 1.458M SEK from the Swedish Research Council FORMAS to fund a three-year project entitled “Hägerstrand: GIS-based Mobility Information for Sustainable Urban Planning” (2007-2009 delayed till 2011). • Grant from NordForsk (Nordic research board) NOK 858 000,00 to fund a three-year project on the Nordic Network in Geographic Information Science (NordGISci), period 01.01.2006 – 31.12.2008; • Award jointly with Feng Lu from the Ministry of Science and Technology of China in setting up a Sino-Swedish collaboration project, entitled “Structure, dynamic information representation and application technologies for multi-modal urban transport networks”; • Travel award (13, 000 SEK) from the Swedish Cartographic Society to attend the XXth congress of International Society for Remote Sending and Photogrammetry, 11-23 July, 2004, Istanbul, Turkey.
7. Doctoral or Postdoctoral researchers who are or have been engaged with (names, years)
Name: Dr. Xintao Liu, Year: 2009-01 till 2012-03
Name: Dr. Tao Jia, Year: 2009-05 till 2012-12
Name: Dr. Sijiang Zhao, Year: 2007-10 till 2008-09
Name: Dr. Wenjun Xie, Year: 2002-09 till 2003-09
Name: Dr. Qingyuan Li, Year: 2001-07 till 2001-11

8. Talks by invitation (expenses covered, just for the most recent)
• “Head/Tail Breaks for Visualizing the Fractal or Scaling Structure of Geographic Features”, invited talk at 4 February, 2014, University College London’s SpaceTimeLab. • “Ht-index for Characterizing Street Hierarchies, keynote at GIS Ostrava 2014: Geoinformatics for Intelligent Transportation, 27-29 January, 2014, Ostrava, Czech Republic. • “Self-Organized Natural Cities from the Location Based Social Media”, at Department of Geography and Human Environment, and The David Azrieli School of Architecture, Tel Aviv University, Israel, 6 November, 2013. • “Head/Tail Breaks for Spatial Analysis, Visualization, and Cognition”, keynote at Workshop on "VizWorld", Spatial Analysis and Cognition in Architecture and Urban Planning, Grand Opening Celebration of the Technion Virtual Reality and Visualization Laboratory, School of Architecture and Town Planning, Israel Institute of Technology (Technion), Israel, 3-5 November, 2013. • “The Evolution of Natural Cities: A New Way of Looking at Human Mobility”, keynote at Mobile Ghent ’13, 23-25 October, 2013, University of Ghent, Belgium. • “Topological and Scaling Ways of Thinking for Understanding Space, Society and their Relationship”, November 12, 2012, University of Dundee, UK; • “Simulation of Human Behaviour in an Urban Setting” with PhD course/workshop: Agent based simulation of human behaviour, November 6, 2012, University of Copenhagen, Denmark; • “Computing the Image of the City”, at the Seventh International Conference on Informatics and Urban and Regional Planning, May 10-12, 2012, Universities of Cagliari and Sassari, Italy; • “Two Ways of Thinking for Understanding Architectural and Urban Space” at the School of Architecture and Urban Planning, Nanjing University, December 22, 2011; • “Volunteered Geographic Information Provides New Perspectives for Computational Geography” at the Center for Earth System Science, Tsinghua University, December 18, 2011; • “Why Topology and Scaling Matter in Geospatial Analysis”, at the Shijian Forum of the State Key Laboratory of Resources and Environmental Information System, Chinese Academy of Sciences, September 19, 2011, Beijing, China; • “Mining GPS Trajectories for Understanding Human Mobility Patterns”, at International Workshop on Trajectory Data Mining and Analysis, September 18, 2011, Beijing, China. • “Why Topology and Scaling Matter in Geospatial Analysis”, at International Symposium on Spatial-Temporal Analysis and Data Mining, University College London - 18th-19th July 2011. • Invited to address the 5th International Workshop on Information Fusion and Geographical Information Systems: Towards the Digital Ocean (IF&GIS 2011), May 10-11 2011, Brest, France. • Invited to address the International Conference on Spatial Planning and Sustainable Development, 29-31 July, 2011, Kanazawa, Japan.

9. Services in international organizations (just for the most recent)

10. Services as an organizer, columnist and editor

10. Publications (selective)
Jiang B. (2013), The image of the city out of the underlying scaling of city artifacts or locations, Annals of the Association of American Geographers, 103(6), 1552-1566.