

Biographic Sketch: Shih-Lung Shaw

Professional Preparation:

The Ohio State University	Geography	Ph.D. 1986
The Ohio State University	Geography	M.A. 1983
National Taiwan University	Geography	B.S. 1979

Appointments:

Professor and Associate Professor, Dept. of Geography, University of Tennessee, 1998-present
Director, Confucius Institute, University of Tennessee, 2012-present
Head, Department of Geography, University of Tennessee, 2007-2010
Associate and Assistant Professor, Dept. Of Geography, Florida Atlantic University, 1988-1998

Honors and Awards (Selected):

Alvin and Sally Beaman Professorship, University of Tennessee, 2013-present.
Arts and Sciences Excellence Professorship, University of Tennessee, Knoxville, 2010-present
Betty Lynn Hendrickson Professorship, University of Tennessee, Knoxville, 2009-2013
Elected to Fellow of the American Association for Advancement of Science (AAAS), 2008
Edward L. Ullman Award for outstanding contributions to the field of transportation geography,
Transportation Geography Specialty Group, The Association of American Geographers (AAG),
2008

Publications:

1. Five Most Closely Related to Proposed Project:

- Pei, T., Sobolevsky, S., Ratti, C., Shaw, S-L., Li, T. and Zhou, C. 2014. A new insight into land use classification based on aggregated mobile phone data, *International Journal of Geographical Information Science*, in press, <http://dx.doi.org/10.1080/13658816.2014.913794>.
- Zhao, Z., Shaw, S-L. and Wang, D. 2014. A space-time raster GIS data model for spatiotemporal analysis of vegetation responses to a freeze event, *Transactions in GIS*, in press, <http://dx.doi.org/10.1111/tgis.12088>.
- Chen, J., Shaw, S-L., Yu, H., Lu, F., Chai, Y. and Jia, Q. 2011. Exploratory data analysis of activity diary data: a space-time GIS approach, *Journal of Transport Geography*, 19(3), 394-404.
- Shaw, S-L. and Yu, H. 2009. A GIS-based time-geographic approach of studying individual activities and interactions in a hybrid physical-virtual space, *Journal of Transport Geography*, 17(2), 141-149.
- Shaw, S-L, Yu, H. and Bombom, L. 2008. A space-time GIS approach to exploring large individual-based spatiotemporal datasets, *Transactions in GIS*, 12(4), 425-441.

2. Five Other Publications:

- Shaw, S-L., Fang, Z., Lu, S. and Tao, R. 2014. Impacts of the high speed rail on railroad network accessibility in China, *Journal of Transport Geography*, in press, <http://dx.doi.org/10.1016/j.jtrangeo.2014.03.010>.
- Tu, W., Fang, Z., Li, Q., Shaw, S-L. and Chen, B. 2014. A bi-level Voronoi diagram-based metaheuristic for a large-scale multi-depot vehicle routing problem, *Transportation Research Part E: Logistics and Transportation Review*, 61, 84-97.
- Chen, B.Y., Li, Q., Wang, D., Shaw, S-L., Lam, W.H.K., Yuan, H. and Fang, Z. 2013. Reliable space-time prisms under travel time uncertainty, *Annals of the Association of American Geographers*, 103(6), 1502-1521.

- Yin, L., Shaw, S-L., Wang, D., Carr, E., Berry, M., Gross, L. and Comiskey, J. 2012. A framework of integrating GIS and parallel computing for spatial control problems – a case study of wildfire control, *International Journal of Geographical Information Science*, 26(4), 621-641.
- Miller, H. and Shaw, S-L. 2001. Geographic Information Systems for Transportation: Principles and Applications. New York: Oxford University Press, 458 pages.

Selected Recent Synergistic Activities:

- Invited to serve on the Academic Program Review Committee, Research Center for Humanities and Social Sciences, Academia Sinica, Taipei, Taiwan, July 7-9, 2014.
- Invited to give a keynote presentation at the International Conference on Geoinformatics, Kaohsiung, Taiwan, June 26, 2014.
- Invited to give a presentation at the International Time-Geography Days, Linköping University, Linköping, Sweden, May 14, 2014.
- Invited to give a presentation in the Department of Geography, National Taiwan University, Taipei, Taiwan, January 8, 2014.
- Invited to give a presentation in the School of Remote Sensing and Information Engineering, Wuhan University, Wuhan, China, December 26, 2013.
- Invited to give a presentation in the School of Civil and Environmental Engineering, Georgia Institute of Technology, March 8, 2013.
- Served on program committees of the following conferences: GeoComputation 2015 Conference (Dallas, Texas, May 20-23, 2015), ISPRS TC II Joint International Conference on Geospatial Theory, Processing, Modelling and Applications, together with IGU Commission on Geographical Information Science and Commission on Modelling Geographical Systems (Toronto, Canada, October 6-8, 2014), The Eighth International Conference on Geographic Information Science (GIScience 2014, Vienna, Austria, September 23-26, 2014), The Eighth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM 2014, Rome, Italy, August 24-28, 2014), Co-Chair, International Workshop of Geographical Information Science 2014 (IWGIS 2014, Beijing, China, June 21-22, 2014), International Workshop on Spatial Analysis and Data Mining (SADM 2014, Wuhan, China, May 16-18, 2014), and International Time-Geography Days (Linköping, Sweden, May 14-16, 2014).

Collaborators and Other Affiliations:

1. Collaborators during the past 5 years:

- At University of Tennessee, Knoxville: Louis Gross (Ecology and Evolutionary Biology), Michael Berry (Computer Science), Suzanne Lenhart (Mathematics), Lee Han (Civil and Environmental Engineering), Jerry Everett & Airton Kohls (Center for Transportation Research), Hyun Kim (Geography).
- At other institutions: David Wong (George Mason University), Hongbo Yu (Oklahoma State University), Dali Wang (Oak Ridge National Laboratory), Qingquan Li (Shenzhen University, China), Zhixiang Fang, Biyu Chen, Wei Tu, Shiwei Lu & Hui Yuan (Wuhan University, China), Feng Lu, Chenghu Zhou, Jie Chen, Tao Pei & Ting Li (Chinese Academy of Sciences, China), Donggen Wang (Hong Kong Baptist University), William H.K. Lam (Hong Kong Polytechnic University), Carlo Ratti & Stanislav Sobolevsky (MIT).

2. Ph.D. and Master's Advisees (who have completed their degree program at UTK):

- Ph.D.: Xiaohong Xin, Hongbo Yu, Robert Stewart, and Ling Yin.
- Master's: Moinak Chatterjee, Jessica Tharpe, David Ralston, Steve Ahrens, Xumei Liu, Brad Wilson, Xia Huang, Yitu Xu, Ziliang Zhao, Amy Davis, Sumang Liu, Austin Rutledge.