

Dr. Shih-Lung Shaw
Alvin and Sally Beaman Professor & Arts and Sciences Excellence Professor
Department of Geography, University of Tennessee
304 Burchfiel Geography Building, Knoxville, TN 37996-0925
Phone: 865-974-6036, FAX: 865-974-6025, Email: sshaw@utk.edu

Education:

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

Recent Appointments:

Alvin and Sally Beaman Professor of Geography, University of Tennessee, Knoxville, Tennessee, 2013-present

Arts and Sciences Excellence Professor of Geography, University of Tennessee, Knoxville, Tennessee, 2010-present

Director of Confucius Institute, University of Tennessee, Knoxville, Tennessee. 2012-present

Head of the Department of Geography, University of Tennessee, Knoxville, Tennessee, 2007-2010

Publications: Five publications most closely related to proposed activity

1. Xu, Y., Shaw, S-L., Zhao, Z., Yin, L., Fang, Z. and Li. Q. 2015. Understanding aggregate human mobility patterns using passive mobile phone location data – a home-based approach, *Transportation*, in press (DOI: 10.1007/s11116-015-9597-y).
2. Yin, L. and Shaw, S-L. 2015. Exploring space-time paths in physical and social closeness spaces: a space-time GIS approach, *International Journal of Geographical Information Science*, in press (<http://dx.doi.org/10.1080/13658816.2014.978869>).
3. Zhao, Z., Shaw, S-L. and Wang, D. 2015. A space-time raster GIS data model for spatiotemporal analysis of vegetation responses to a freeze event, *Transactions in GIS*, 19(1), 151-168.
4. 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*, 28(9), 1988-2007.
5. 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.

Publications: Five other significant publications

1. 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.
2. Pei, T., Gong, X., Shaw, S-L., Ma, T. and Zhou, C. 2013. Clustering of temporal event processes, *International Journal of Geographical Information Science*, 27(3), 484-510.
3. 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.
4. Yu, H. and Shaw, S-L. 2008. Exploring potential human interactions in physical and virtual spaces: A spatiotemporal GIS approach, *International Journal of Geographical Information Science*, 22(4), 409-430.
5. Miller, H. and Shaw, S-L. 2001. Geographic Information Systems for Transportation: Principles and Applications. New York: Oxford University Press, 458 pages.

Synergistic Activities:

- Guest editor of a Special Issue on Human Dynamics in the Mobile and Big Data Era for *International Journal of Geographic Information Science* in 2015
- Editorial board member of (1) *International Journal of Geographic Information Science*, (2) *Journal of Transport Geography*, (3) *Travel Behaviour and Society*, (4) *Journal of Geographical Information System*, and (5) *Geographical Research* (China)
- Recent invited talks at the following institutions/conferences: (1) Keynote presentation at the International Conference on Location-based Social Media Data, Athens, Georgia, 3/13/2015, (2) Robinson Colloquium, Department of Geography, The Ohio State University, Columbus, Ohio, 11/21/2014, (3) Institute of Space and Earth Information Science, Chinese University of Hong Kong, Hong Kong, China, 10/31/2014, (4) Experian R&D Data Lab, San Diego, CA, 8/14/2014, (5), Academia Sinica, Taipei, Taiwan, 7/21/2014, (6) Keynote presentation at International Conference on Geoinformatics, Kaohsiung, Taiwan, 6/26/2014, (7) International Time-Geography Days Conference, Linköping, Sweden, 5/14/2014, (8) Department of Geography, National Taiwan University, Taipei, Taiwan, 1/8/2014, (9) Panelist at GeoComputation Conference, Wuhan, China, 5/25/2013, (10) Department of Urban and Regional Planning, University of Illinois, Urbana-Champaign, Illinois, 3/11/2013
- Recent invitations to serve on program committees of the following conferences: (1) International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM 2015), Nice, France, (2) International Workshop on Spatiotemporal Computing, Fairfax, Virginia, (3) Geoinformatics 2015 Conference, Wuhan, China, (4) GeoComputation 2015 Conference, Dallas, Texas, (5) International Conference on Location-Based Social Media Data, Athens, Georgia, (6) GeoComputation 2015 Conference, Dallas, Texas, (7) GIScience 2014 Conference, Vienna, Austria, (8) 2014 International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM 2014), Rome, Italy, (9) 2014 International Time Geography Days, Linköping University, Linköping, Sweden

Collaborators and Other Affiliations:

1. Collaborators:

- Louis Gross (Ecology and Evolutionary Biology), Michael Berry (Computer Science), Suzanne Lenhart (Mathematics), Lee Han (Civil and Environmental Engineering), Jerry Everett and Airton Kohls (Center for Transportation Research), Bruce Ralston and Hyun Kim (Geography) at the University of Tennessee, Knoxville
- Harvey Miller (Geography at The Ohio State University), David Wong (Geography and GeoInformation Science at George Mason University), Hongbo Yu (Geography at Oklahoma State University), Stanislav Sobolevsky and Carlo Ratti (SENSEable City Lab, MIT), Dali Wang and Ho-Ling Hwang (Oak Ridge National Laboratory)
- Qingquan Li, Zhixiang Fang, Luliang Tang, Biyu Chen, Wei Tu, and Shiwei Lu (Wuhan University, China), Chenghu Zhou, Feng Lu, Jie Chen, Tao Pei, and Ting Ma (Chinese Academy of Sciences, China), Yanwei Chai (Peking University, China)

2. Graduate and post-doctoral advisors:

- Edward Taaffe (deceased) and Howard Gauthier (retired), The Ohio State University.

3. Ph.D. and Master's advisees who have completed their degree with me:

- Ph.D.: At University of Tennessee - Xiaohong Xin, Hongbo Yu, Robert Stewart, and Ling Yin.
- Master's: At University of Tennessee - Moinak Chatterjee, Jessica Tharpe, David Ralston, Steve Ahrens, Xumei Liu, Brad Wilson, Xia Huang, Yitu Xu, Ziliang Zhao, Amy Davis, Sumang Liu, Austin Rutledge, Yuan Liu, and Yicong Zhong; At Florida Atlantic University – Amy Ferriter, David Harris, Dongmei Wang, among others