

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):

Arts and Sciences Excellence Professorship, College of Arts and Sciences, University of Tennessee, Knoxville, 2010-present.
Betty Lynn Hendrickson Professorship, College of Arts and Sciences, University of Tennessee, Knoxville, 2009-present.
Chancellor's Research and Creative Achievement Award, University of Tennessee, Knoxville, 2009.
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., Gong, X., Shaw, S-L., Ma, T. and Zhou, C. 2012. Clustering of temporal event processes, *International Journal of Geographical Information Science*, 27(3), 484-510.
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
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.

2. Others:

- 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*, accepted for publication.
Fang, Z, Tu, W., Li, Q., Shaw, S-L, Chen, S. and Chen, B. 2012. A Voronoi neighborhood-based search heuristic for distance/capacity constrained very large vehicle routing problems, *International Journal of Geographical Information Science*, 27(4), 741-764.
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.

Wong, D. and Shaw, S-L. 2011. Measuring segregation: an activity space approach, *Journal of Geographical Systems*, 13(2), 127-145.

Miller, H. and Shaw, S-L. 2001. Geographic Information Systems for Transportation: Principles and Applications. New York: Oxford University Press, 458 pages.

Recent Synergistic Activities:

- Invited to give a presentation at the *Geospatial Information Summit on Smart City* at Wuhan University, Wuhan, China, May 15-16, 2013.
- Invited to give a presentation in the School of Civil and Environmental Engineering, Georgia Institute of Technology, March 8, 2013.
- Invited to participate in the *Visualizing Flow and Movement in the Humanities Workshop* sponsored by the National Endowment of Humanities (NEH) at the University of Redlands, Redlands, California, October 29-30, 2012.
- Invited to give a colloquium presentation in the Department of Geography, University of Georgia, Athens, Georgia, February 3, 2012.
- Invited to give a presentation at an *ICT Experts Group Meeting*, which was held at the German Aerospace Center (DLR), Berlin, Germany, November 30 - December 2, 2011.
- Invited to give a presentation at the Swedish Road and Traffic Institute and have meetings in the Department of Thematic Studies, Linkoping University, Linkoping, Sweden, November 25, 2011.
- Invited to give a presentation and have meetings in the Department of Human Geography, Stockholm University, Stockholm, Sweden, November 22, 2011.
- Invited to give a presentation at the Transportation Seminar sponsored by the Department of Geography and the Department of Civil and Environmental Engineering, University of Connecticut, Storrs, Connecticut, March 28, 2011.
- Invited to give a presentation at *Specialist Meeting of Spatio-Temporal Constraints on Social Networks*, which was held at Upham Hotel, Santa Barbara, California, December 13-14, 2010.
- Invited to give a keynote presentation at *2010 Asia GIS International Conference*, which was held at Garden Villa Hotel, Kaohsiung, Taiwan, November 5-6, 2010.
- Invited to give a presentation at Space-Time Modeling and Analysis Workshop, the Environmental Systems Research Institute (ESRI), Redlands, California, February 22-23, 2010.

Collaborators and Other Affiliations:

1. Collaborators during the past 5 years:

- Louis Gross, Dept. of Ecology and Evolutionary Biology; Michael Berry, Dept. of Computer Science; Suzanne Lenhart, Dept. of Mathematics; Lee Han, Dept. of Civil and Environmental Engineering, Jerry Everett, Center for Transportation Research, University of Tennessee.
- David Wong, George Mason University; Hongbo Yu, Oklahoma State University; Dali Wang, Oak Ridge National Laboratory; Qingquan Li, Shenzhen University, China; Zhixiang Fang and Biyu Chen, Wuhan University, China; Feng Lu, Chenghu Zhou, Jie Chen and Tao Pei, Chinese Academy of Sciences, 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 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.