

**HAIFENG (FELIX) LIAO**  
Department of Geography  
University of Idaho, Moscow, ID 83844-3021  
Email: [hliao@uidaho.edu](mailto:hliao@uidaho.edu)  
Tel: (208) 885-6452; Fax: (208) 885-6452

### **ACADEMIC POSITIONS**

2014– Assistant Professor, Department of Geography, University of Idaho  
2013–2014 Associate Instructor, Department of Geography, University of Utah  
2009–2013 Teaching/Research Assistant, Department of Geography, University of Utah  
2005–2007 Teaching/Research Assistant, Department of Geography, University of Hong Kong

### **EDUCATION**

2014 Ph.D., **Geography**, The University of Utah, Salt Lake City, Utah  
  
2008 M.Phil., **Geography**, The University of Hong Kong, Hong Kong, China  
  
2002 B.S., **Economic Geography & Planning**, Sun Yat-sen University, Guangzhou, China  
2002 Minor, **Computer Science**, Sun Yat-sen University, Guangzhou, China

### **RESEARCH INTERESTS**

- Economic geography, globalization/FDI/trade, industrial locations, regional development, China
- Urban and environmental studies, land use, smart growth/city, urban infrastructure, sustainability
- Spatial analysis, GIS, discrete choice/hedonic/input-output analysis, spatial/big data analytics

### **AWARDS & HONORS**

2014 Chinese Government Scholarship for Outstanding Self-financed Students Studying Abroad (\$6,000)  
2013 Travel Award, China Geography Specialty Group, AAG (\$100)  
2013 Outstanding Student Research Award, Department of Geography, University of Utah  
2012 Best Graduate Student Paper Award, Regional Development & Planning Specialty Group, AAG (\$200)  
2011 Third Place Prize, CSBS Graduate Student Research Day Paper Competition, University of Utah (\$100)

### **PUBLICATIONS (\*indicates corresponding author; student or advisee is underlined)**

#### **Refereed journal articles**

2016 Wang, M. F. , **Liao, F.H.F.\***, Lin, J., Huang, L et al. The making of a sustainable wireless city? Mapping public Wi-Fi access in Shanghai. *Sustainability* 8(2), 111.  
2016 **Liao, F.H.F.**, Wilhelm, F. and Solomon, M. The effects of ambient water quality and Eurasian watermilfoil on lakefront property values in the Coeur d'Alene area of Northern Idaho. *Sustainability*. 8(1), 44.  
2015 **Liao, F.H.F.**, and Wei, Y.H.D. Space, scale, and regional inequality in provincial China: A spatial filtering approach. *Applied Geography*. 61, 94–104.  
2015 Li, H., Wei, Y.H.D, **Liao, F.H.F.**, and Wang, Z. Administrative hierarchy and urban land expansion in transitional China. *Applied Geography*, 56, 177–186.

- 2015 **Liao, F.H.F.**, Farber, S. and Ewing, R. Compact development and preference heterogeneity in residential location choice behaviour: A latent class analysis. *Urban Studies*. 52, 314–337.
- 2014 **Liao, F.H.F.** and Wei, Y.H.D. Modeling determinants of urban growth in Dongguan, China: A spatial logistic approach. *Stochastic Environmental Research and Risk Assessment*, 28, 801–816.
- 2013 Wei, Y.H.D. and **Liao, F.H.F.** The embeddedness of TNCs in Chinese cities: Strategic coupling in global production networks? *Habitat International*, 40, 82–90.
- 2013 **Liao, F.H.F.** and Wei, Y.H.D. TNCs' technology linkages with domestic firms: An investigation of the ICT Industry in Suzhou, China. *Environment and Planning C*, 33, 460–474.
- 2012 Wei, Y.H.D., Yuan, F., and **Liao, F.H.F.** Spatial mismatch and determinants of foreign and domestic information and communication technology firms in urban China. *The Professional Geographer*, 65,; 247–264.
- 2012 **Liao, F.H.F.** and Wei, Y.H.D. Dynamics, space, and regional inequality in provincial China: A case study of Guangdong Province. *Applied Geography*, 35, 71–83.
- 2011 **Liao, F.H.F.** and Chan, R.C.K. Industrial relocation of Hong Kong manufacturing firms: Towards an expanding industrial space beyond the Pearl River Delta. *GeoJournal*, 76, 623–639.
- 2010 Yang, C. and **Liao, F.H.F.** Industrial agglomeration of Hong Kong and Taiwanese manufacturing investment in China: A town level analysis in Dongguan. *Annals of Regional Science*, 45, 487–517.
- 2010 Yang C. and **Liao, F.H.F.** Backward linkages of cross-border production networks of Taiwanese PC investment in the Pearl River Delta, China. *Tijdschriftvoor Economische en Sociale Geografie (Journal of Social and Economic Geography)*, 101, 199–217.
- 2009 **Liao, F.H.F.** Industrial agglomeration of Taiwanese electronics firms in Dongguan, China: A town-level analysis. *Asian Geographer*. 26, 1–21.
- Book chapters**
- 2016 **Liao, F.H.F.** and Wei, Y.H.D. Sixty Years of Regional Inequality in China (under revision). Sage Handbook on Contemporary China.
- 2016 Wei, Y.H.D., Zhang, L., **Liao, F.H.F.** and Chen, J.L. Urban land use expansion and spatial restructuring in the Yangtze River Delta, China. In J. Man, R. Tao and Y.H. Hong (Eds.), *China's Land Policy and Economic Development*, Cambridge: Lincoln Institute of Land Policy.
- 2013 **Liao, F.H.F.**, Xu, Z.H. and Liang, B. Industrial cluster of Taiwanese electronics firms in Dongguan, China: Home effects and implications for industrial upgrading. in S. Eriksson (Ed.), *Clusters and Economic Growth in Asia*, Cheltenham: Edward Elgar.
- 2008 Yang, C. and **Liao, F.H.F.** Urban and regional development of the Pan-Pearl River Delta. In Y.M. Yeung and J. F. Shen (Eds.), *The Pan-Pearl River Delta: An Emerging Regional Economy in Globalizing China*, Hong Kong: The Chinese University of Hong Kong Press.
- Refereed conference proceedings**
- 2016 Dong, E.S.\*, **Liao, F.H.F.**, and Kang, H.J. Grocery shopping: Geographic scale matters in analyzing the effects of built-environment on travel mode choice. *2016 Transportation Research Board (TRB) Annual Meeting*, January 10–14, Washington, DC.
- 2014 **Liao, F.H.F.**, Farber, S. and Ewing, R. Compact development and preference heterogeneity in residential location choice behavior: A latent class analysis. *2014 Transportation Research Board (TRB) Annual Meeting*, January 12–16, Washington, DC.

- 2012 **Liao, F.H.F.** and Wei, Y.H.D. Spatial determinants of urban growth in Dongguan, China. *GIScience 2012, Extended Abstracts Volume*, September 18–21, Columbus, Ohio.

### **CONFERENCE PRESENTATIONS**

- 2016 Liao, F.H.F., et al., Global research on urban ecosystem services, 1996-2015. *Annual Meeting of Idaho NSF-EPSCoR MILES program*, October 20–21, 2016. Coeur d’Alene, ID.
- 2016 Liao, F.H.F., et al., Global research on urban ecosystem services, 1996-2015. *Geo-informatics in Sustainable Ecosystem and Society (GSES)*, October 8, 2016. Eastern Michigan University, Ypsilanti, MI.
- 2016 Layton, A., and Liao, F.H.F. Spatial determinants of urban growth in the greater Coeur d’Alene area of Northern Idaho. *Annual Meeting of American Association of Geographers (AAG)*. March 29–April 4, 2016. San Francisco, CA.
- 2016 Liao, F.H.F. et al., 2016. The effects of water quality on lakefront property values in the wildland-urban interface of the American West: Evidence from Coeur d’Alene, Idaho. *Annual Meeting of American Association of Geographers (AAG)*. March 29–April 4, 2016. San Francisco, CA (chair for the session titled Spatial Inequality, Sustainability and Policy in China and Asia).
- 2016 Huang, L. and Liao, F.H.F. 2016. The spatial-temporal dynamics of regional inequality in Zhejiang, China: A spMorph approach. *Annual Meeting of American Association of Geographers (AAG)*. March 29–April 4, 2016. San Francisco, CA.
- 2016 Gordon, B., Dezzani, R., Liao, F.H.F., and Xu, S.. 2016. Mapping demand and modeling transportation costs for small farms in Idaho. *Annual Meeting of American Association of Geographers (AAG)*. March 29–April 4, 2016. San Francisco, CA.
- 2016 Dong, Ensheng, Liao, F.H.F., and Kang, H.J. Grocery shopping: Geographic scale matters in analyzing the effects of built-environment on travel mode choice. *Transportation Research Board (TRB) Annual Meeting*, January 10–14, Washington, DC.
- 2015 Liao, F.H.F. et al., The spatial heterogeneity of water quality benefits in a urban housing market. *Annual North American Meeting of the Regional Science Association International*, November 11-14, Portland, OR (chair for the session titled Analysis of Environmental Issues)
- 2015 Liao, F.H.F. et al. The effect of water quality on lakefront property values in the wildland-urban interface of the American West: Evidence from Coeur d’Alene, Idaho. *6th Northwest Climate Conference*. November, 3-5, Coeur d’Alene, ID.
- 2015 Liao, F.H.F. et al., A bibliometric analysis of the research on urban ecosystem services. *Annual Meeting of Idaho NSF-EPSCoR MILES program*, October 29–30, Boise, ID
- 2015 Liao, F.H.F. and Whielm, F. The effects of ambient water quality and Eurasian watermilfoil on lakefront property values in the Coeur d’Alene area of Northern Idaho, USA. *Annual Meeting of Idaho NSF-EPSCoR MILES program*, October 29–30, Boise, ID
- 2015 Liao, F.H.F. and Wei, Y.H.D. Space, Sale, and Regional Inequality in Provincial China: A Spatial Filtering Approach. *International Conference on Inequality and Sustainability in China and Asia*, September 18–20, Salt Lake City, UT (chair of the session titled Economy, Industry and Inequality).
- 2015 Liao, F.H.F. and Wei, Y.H.D. Space, scale, and regional inequality in provincial China: A spatial filtering approach. *Annual Meeting of AAG*, April 21–25, Chicago, IL. (chair of the session titled Spatial Inequality V: China II).
- 2014 Liao, F.H.F., Farber, S. and Ewing, R. Compact development and preference heterogeneity in residential location choice behaviour: A latent class analysis. Presented at the *Annual Meeting of the Western Regional Science Association*, February 16–19, San Diego CA.

- 2013 Liao, F.H.F. When do TNCs want to cooperate with domestic firms in innovation? An investigation of the ICT industry in Suzhou, China. Presented at the *Annual Meeting of AAG*, April 9–13, Los Angeles, CA.
- 2013 Liao, F.H.F. GIS pedagogy, flipped labs, and student achievements. Presented at the *Fifth Annual Scholarship of Teaching and Engagement Conference*, March 28–29, Orem, UT.
- 2012 Liao, F.H.F. Distribution dynamics and the core-periphery hierarchy of regional inequality in provincial China: a case study of Guangdong. Presented at the *Annual Meeting of AAG*, February 24–28, New York.
- 2011 Liao, F.H.F. and Wei, Y.H.D. A spatial-temporal analysis of regional inequalities in Guangdong, China: Exploratory space-time analysis and spatial panel approaches. Presented at the *Annual North American Meeting of the Regional Science Association International*, November 9–11, Miami, FL.
- 2011 Liao, F.H.F. and Wei, Y.H.D. Geographical spillover, scale, and regional inequality in provincial China: A case study of Guangdong. Presented at the *Annual Meeting of AAG*, April 12–16, Seattle, WA.
- 2010 Liao, F.H.F. and Chan, R.C.K. Redistribution of Hong Kong manufacturing firms in the Pearl River Delta, China. Presented at the *Annual Meeting of AAG*, April 14–18, Washington DC.
- 2007 Yang, C. and Liao, F.H.F. Industrial agglomerations of Hong Kong and Taiwan investment in Dongguan, China: A town level analysis. Presented at the *Annual Meeting of AAG*, April 13–17, San Francisco, CA.

### **GRANTS AWARDED**

- 2016–2017 *Resilience of rural communities to hazardous materials commodity flow in northern Idaho*. Department of Transportation and Nez Perce Tribe. \$55,124. Subcontract PI. (Co-I: Ahmed Abdel-Rahim)
- 2016–2019 *InFEWS: Social-ecological-technological solutions to waste reuse in food, energy, and water systems (ReFEWS)*. NSF. \$2,598,207. Senior Personnel. (PI: Lilian Alessa)
- 2015–2017 *Towards ONE Idaho: An investigation of social-ecological system boundaries and domains across MILES sites*. Idaho NSF-EPSCoR MILES, iSEED type I. \$310,672. Co-PI. (PI: Kathleen Lohse)
- 2015–2016 *A bibliometric analysis of the research on urban ecosystem services: frameworks, approaches, and geographical settings*. Idaho NSF-EPSCoR MILES, iSEED type II. \$26,498. PI (Co-PIs: Michail Fragkias, Danelle Larson).
- 2014–2017 *Serving Local and Regional Markets in the Intermountain West: Identifying and Overcoming Constraints in a Vast Geography*. USDA–AFRI. \$500,000. Replacement Co-I (PI: Darin Saul).
- 2014–2017 *A spatial-temporal analysis of intra-provincial inequalities in China*. The Natural Science Foundation of China (Hong Kong-Macao and Overseas Scholars Collaboration Fund). 2,000,000 RMB (about \$330,000). Consultant.
- 2013–2014 *A spatial-temporal analysis of intra-provincial inequalities in China: a case study of Guangdong province*. \$6,000. Chinese Scholarship Committee. PI.

### **TEACHING EXPERIENCE**

#### **Teaching projects**

- GIS pedagogy, flipping teaching, and student achievements.* 2013-2014  
TA Scholar Program, University of Utah

**Courses taught at the University of Idaho**

Human Geography (GEOG 165)	Fall 2016
New Economic Spaces (GEOG 404)	Fall 2014
Global Economic Geography (GEOG 345/545)	Fall 2015
Intermediate GIS (GEOG 475)	Spring 2015 Spring 2016

**Courses taught at the University of Utah**

Methods in GIS (GEOG 5140/6140)	Fall 2013 Summer 2013 Spring 2012 Spring 2011
Remote Sensing of the Environment (GEOG 3110)	Fall 2012
Introduction to Human Geography (GEOG 1400)	Summer 2012
Introduction to GIS (GEOG 3140)	Fall 2010

**Courses taught at the University of Hong Kong**

China Field Trip (GEOG 7116)	Spring 2006 (TA)
Urban Planning Principles and Practices (GEOG 2065)	Fall 2006 (TA)

**ACADEMIC REVIEW ACTIVITIES****Ad hoc journal reviews**

Applied Geography	2014:2; 2015:4; 2016:1
Applied Spatial Analysis and Policy	2016:3
Annals of GIS	2012:2
Annals of Regional Science	2014:1; 2015:1
Environment and Planning A	2013:1
Geographical Review	2015:1
Growth & Change	2013:1
Habitat International	2015:1; 2016:2
International Journal of Env. Research & Public Health	2015:1
International Journal of Geographic Information (IJGI)	2015:1; 2016:1
International Journal of Geographic Information Science (IJGIS)	2016:1
Journal of Economic Geography	2013:2
Journal of Sustainable Transportation	2015:1
Journal of Urban Affairs	2016:1
Land Use Policy	2016:1
Landscape and Urban Planning	2016:1
Letters in Spatial and Resource Sciences	2014:2; 2017:1
PLOS ONE	2015:1; 2016:1
Research Journal of Environmental Sciences	2016:1
Regional Science Policy & Practice	2011:1
Regional Studies	2013:1
Spatial Economic Analysis	2012:1; 2014:1
Spatial Statistics	2016:1
Stochastic Environmental Research and Risk Assessment	2012:2; 2014:1
Sustainability	2014:1; 2015:2; 2016: 4

Tijdschrift voor economische en sociale geografie (TESG)	2015:1
Transportmetrica A: Transport Science	2015:1
Transportation Research Record	2013:2; 2014:3; 2015:1; 2016: 2
Transportation Research Part A: Policy and Practice	2015:1
Urban Geography	2014:1
Urban Studies	2013:1; 2014:2; 2015:1; 2017:1

### **DEPARTMENTAL/UNIVERSITY SERVICE**

#### **Committee Service**

2016–	Fellowship Support Program, College of Graduate Studies, University of Idaho
2014–2015	Graduate Admission Committee, Department of Geography, University of Idaho

#### **Undergraduate Student Advising**

2015–2016	Rotell, Sawyer (MILES Undergraduate Research and Internship, or MURI, \$4000)
2015	Nicoll, Kelly (MURI, \$4000)
2014–2015	Layton, Andrew (MURI, \$4000)
2014	Kalicka, Max (capstone project, fall 2014)
2014–2015	Layton, Andrew (capstone project, spring 2015, Meritorious Achievement Award 2015)

#### **Graduate Student Advising**

2016–	Layton, Andrew, MS. student, Geography, University of Idaho (TA/RA)
2014–	Huang, Li, Ph.D. student, Geography, University of Idaho (RA, Student Representative, Regional Development and Planning Specialty Group, AAG)
2014–2015	Dong, Ensheng, MS., Geography (thesis advisor), University of Idaho (RA/TA, GIS/associate applications analyst at Peak Reliability, Oregon)

#### **Thesis/Dissertation Committee Member**

2015–	Feng, Wenlong, MS student, Geography, University of Idaho
2015–	Gordon, Brendan, Ph.D. student, Geography, University of Idaho
2014–2015	Boyden, Elizabeth, MS. student, Geography, University of Idaho
2014–2015	Ndegeah, Samuel, Ph.D., Geography, University of Idaho
2014–2015	Reber, Joseph, MS., Geography, University of Idaho

### **EXTERNAL SERVICE ACTIVITIES**

2016–	Editorial Board Member, <i>Research Journal of Environmental Sciences</i>
2015	Serve for the publication committee of 3rd Annual International Conference on Geoinformatics in Resource Management & Sustainable Ecosystem
2015–2017	Developed/Developing Countries Director, Regional Development and Planning Specialty Group, AAG
2012–2013	Student Representative, Regional Development and Planning Specialty Group, AAG
2012, 2013	Student Representative, Maps on the Hills, State Government of Utah

### **EMPLOYMENT AND CONSULTING**

2007–2009	Research Officer/Deputy Research Officer (Economic Analysis, Infrastructure Planning, & GIS), One Country Two Systems Research Institute, Hong Kong, China
-----------	--

### **PROFESSIONAL AFFILIATIONS**

2009–	Member, American Association of Geographers (AAG)
-------	---

- 2011– Member, Regional Science Association International (RSAI)
- 2013– Member, Western Regional Science Association (WRSA)
- 2016– Member, the International Association of Chinese Professionals in Geographic Information Sciences (CPGIS)