XIAOHUI (Sherry) QIAO

EDUCATION

PhD, Civil Engineering	Brigham Young University, UT	April 2020
MS, Environmental Science	University of Chinese Academy of Sciences, China	July 2012
BS, Environmental Engineering	Harbin Institute of Technology, China.	July 2009

EMPLOYMENT

2023-Present   Research Assistant Professor, Food and Resource Economics Department, University of Florida, FL

2020-2022   Postdoctoral Research Associate, Food and Resource Economics Department, University of Florida, FL

2015-2020   Graduate Research Assistant, Department of Civil and Environmental Engineering, Brigham Young University, UT

2012-2015   Environmental Engineer -- Beijing Construction Eng. Group, China

2009-2012   Graduate Research Assistant, University of Chinese Academy of Sciences, China

PEER-REVIEWED PUBLICATIONS

Court, C., Outerbridge, D., Baker, L., Birou, L., Campbell, C., DiGiacomo, G., Galindo, S., Lai, J., Magnier, A., Miller, M., Oliveira, G., Orlando, E., Peterson, H., **Qiao, X.,** et al. (2023). Pandemic Produce: Impacts of COVID-19 on Florida's Fruit and Vegetable Industries. *Journal of Agricultural & Food Industrial Organization*

W Jiang, F Wang, X Zheng, X Zheng, *X Qiao*, et al. (2022). Toward Interoperable Multi-hazard Modeling: A Disaster Management System for Disaster Model Service Chain. *International Journal of Disaster Risk Science*

X Qiao, Z Li, F Zhang, et al. (2021). A container-based approach for sharing complex environmental models as web services. *International Journal of Digital Earth*

W Jiang, F Wang, L Fang, X Zheng, *X Qiao*, et al. (2021). Modelling of wildland-urban interface fire spread with the heterogeneous cellular automata model, *Environmental Modelling & Software*

X Zheng, F Wang, W Jiang, X Zheng, Z Wu, *X Qiao*, et al. (2021). Construction and spatio-temporal derivation of hazardous chemical leakage disaster chain. *International Journal of Image and Data Fusion*

X Qiao, EJ Nelson, DP Ames, et al. (2019). A Systems Approach to Routing Global Gridded Runoff through Local High-Resolution Stream Networks for Flood Early Warning Systems. *Environmental Modelling and Software*

X Qiao, ZY Li, DP Ames, et al. (2019). Simplifying the deployment of OGC web processing services (WPS) for environmental modelling – Introducing Tethys WPS Server, *Environmental Modelling and Software*

M Sikder , C. David, G. Allen, *X Qiao*, et al. (2019). Evaluation of Available Global Runoff Datasets through a River Model in Support of Transboundary Water Management in South and Southeast Asia, *Frontiers in Environmental Science*

X Qiao, EJ Nelson, DP Ames, et al. (2019). A tool to map gridded land surface model forcing to river routing at global or national scale. *1st Regional Conference on Environmental Modeling and Software* (Best Paper Award, iEMSs 2019, Nanjing, China)

X Qiao, Z Li, D Ames, et al. (2018). A Simplified Approach for Water Resources Web Processing Services (WPS) Development. *9th International Congress on Environmental Modelling and Software* (iEMSs 2018, Fort Collins, CO)

Z Li, M Wang, J Zhao, *X Qiao*, (2014). Analysis on intersections between fractures by parallel computation. *International Journal of Coal Science & Technology*

Z Li, J Zhao, *X Qiao*, et al. (2014). An automated approach for conditioning discrete fracture network modeling to in-situ measurements. *Australian Journal of Earth Sciences*

X Qiao, J Chen, M Wang, et al. (2013) (In Chinese). Spatial distribution of heavy metals in groundwater from the piedmont to coastal areas in the North China Plain. *Earth and Environment*

TECHNICAL REPORTS

Court, C. D., **X. Qiao**, M. Li, K. McDaid. (2023). Preliminary Assessment of Agricultural Losses and Damages Resulting from Hurricane Idalia. *UF/IFAS Economic Impact Analysis Program.*

C Court, *X Qiao*, B. Saha, F He, K McDaid. (2023). Estimated Agricultural Losses Resulting from Hurricane Ian. *UF/IFAS Economic Impact Analysis Program.*

J Ferreira, T Garlock, C Court, J Anderson, F Ascher, K McDaid, *X Qiao,* et al. (2022). Economic contributions of U.S. seafood imports – a value chain perspective. *UF/IFAS*

T Garlock, *X Qiao*, et al. (2021) US agricultural exports to key suppliers of US imported seafood – the connection between US agricultural exports and US seafood imports. *UF/IFAS*

C Court, J Ferreira, A Ropicki, *X Qiao*, et al. (2021). Quantifying the socio-economic impacts of harmful algal blooms in southwest Florida in 2018. *Economic Impact Analysis Program, Food and Resource Economics Department, UF/IFAS*

C Court, J Ferreira, E Orlando, *X Qiao.* (2020). Preliminary assessment of agricultural losses and damages resulting from Hurricane Sally. *Economic Impact Analysis Program, Food and Resource Economics Department, UF/IFAS*

ACADEMIC PRESENTATIONS

Rapid Assessment of the Agricultural Impacts of Hurricane Ian. 29th *Extension Disaster Education Network Annual Conference* (2023), Savannah, GA

Estimation of Agricultural Losses Resulting from Tropical Cyclones in Florida. *2023 UF/IFAS Extension Symposium* (2023). Gainesville, FL

Baseline data collection for estimating direct agricultural losses of tropical cyclones. *7th Annual Florida Agricultural Policy Outlook Conference* (2022), Apopka, FL

Relevance and accuracy in baseline data collection for estimating direct agricultural damage and loss of hazard events: Florida and tropical cyclones. *Southern Agricultural Economics Association Annal Meeting* (2022), New Orleans, LO

A container-based approach for sharing environmental models as web services. *First Workshop of Asian Young Geographers* (2021), online.

A systems approach to routing global gridded runoff through local high-resolution stream networks for flood early warning systems. *CUAHSI Hydroinformatics Conference* (2019), Provo, UT

A tool to map gridded land surface model forcing to river routing at global or national scale. *1st Regional Conference on Environmental Modeling and Software* (2019), Nanjing, China

A simplified approach for water resources web processing services (WPS) development. *9th International Congress on Environmental Modelling and Software* (2018), Fort Collins, CO

Tethys WPS Server: An open source platform for water resources web processing services development. *American Geophysical Union Fall meeting* (2018), Washington, D.C.

TEACHING EXPERIENCE

Brigham Young University	Provo, UT
Engineering Applications of GIS	2016 - 2018 F
Geospatial Software Development	2016, 2017 W
Groundwater modelling	2017, 2018 F
University of Chinese Academy of Sciences	Beijing, China
Water Environment Simulation and System Decision-making	2011W
Groundwater Contamination Control and Remediation	2011F
Advances in *Regional Water Environment and Water Resources*	2010W
Computer in Environmental Science	2010F

HONORS & AWARDS

- Best Paper Award, iEMSs 2019 conference
- Fully Funded Doctoral Program (BYU)
- Civil & Env. Eng. Dept. Graduate Students Scholarship (BYU, Department level)
- Phi Kappa Phi Academic Honor Society Member (top 10% graduate students)
- Outstanding Student Leadership Award, 2011 (UCAS, University level)
- Outstanding Graduate Award, 2012 (Beijing, Province/State level)
- Outstanding Graduate Award, 2009 (Shandong, Province/State level)

REVIEWER EXPERIENCE

Environmental Modelling & Software (Journal, editorial board member)

Frontiers in Water (Journal, review editor)

Engineering Applications of GIS - Lab Manual (Book)

PROFESSIONAL MEMBERSHIPS

Southern Agricultural Economics Association (SAEA)

Southern Regional Science Association (SRSA)

Agricultural & Applied Economics Association (AAEA)

American Geophysical Union (AGU)

International Environmental Modelling and Software Society (iEMSs)