

Dingfan Xing

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EDUCATION

<i>Ph.D., Environmental Science</i>	<i>Oct 2023</i>
State University of New York College of Environmental Science and Forestry (SUNY-ESF)	<i>Syracuse, NY</i>
<i>Master of Engineering</i>	<i>June 2019</i>
China University of Geosciences	<i>Beijing</i>
<i>Bachelor of Science, Geographic Information Science (GIS)</i>	<i>June 2016</i>
China University of Geosciences	<i>Beijing</i>

RESEARCH AND TEACHING INTERESTS

Applied Statistics
Area Estimation
Uncertainties
Survey Sampling
Natural Resource Management

RESEARCH EXPERIENCE

PostDoc Research Associate at The University of Tennessee, Knoxville

- Small Area Estimation of Forest Characteristics 2023-

Senior Research Assistant at SUNY-ESF, advised by Stephen V. Stehman 2020-2023

- Confidence intervals for proportion of estimates from a stratified random sample, Monte-Carlo simulation.
- Total variance estimation considering measurement error.
- Performance of methods based on model-assisted survey regression estimation with application to environmental monitoring.

Research Assistant at Chinese Academy of Sciences, advised by Jinfeng Wang 2017-2019

- Spatial association between environmental factors and human health.
- Optimal discretization method based on GeoDetector

PEER-REVIEWED PUBLICATIONS

Stehman, S.V. and Xing, D , Confidence Intervals for Proportion of Area Estimate from a Stratified Random Sample, <i>Remote Sensing of Environment</i> , https://doi.org/10.1016/j.rse.2022.113193	2022
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Xing, D. ; Stehman, S.V.; Foody, G.M.; Pengra, B.W. Comparison of Simple Averaging and Latent Class Modeling to Estimate the Area of Land Cover in the Presence of Reference Data Variability. <i>Land</i> 2021, https://doi.org/10.3390/land10010035	2021
Stehman, S.V., Mousoupetros J, McRoberts R E., Næsset E, Pengra B W., Xing D , Horton J A., Incorporating interpreter variability into estimation of the total variance of land cover area estimates under simple random sampling, <i>Remote Sensing of Environment</i> , https://doi.org/10.1016/j.rse.2021.112806 .	2022
Xing D , Xu CD, Liao XY, Xing TY, Cheng SP, Hu MG, Wang JX. Spatial association between outdoor air pollution and lung cancer incidence in China. <i>BMC Public Health</i> . https://doi.org/10.1186/s12889-019-7740-y	2019
Xu C, Xing D , Wang J, Xiao G. The lag effect of water pollution on the mortality rate for esophageal cancer in a rapidly industrialized region in China. <i>Environmental Science and Pollution Research</i> . https://doi.org/10.1007/s11356-019-06408-z	2019

FUNDING

Small Area Estimation of Forest Characteristics. U.S. Forest Service	2024-
Advancing Statistical Methods for Collection and Use of Reference Data for USGS Land Cover Monitoring. U.S. Geological Survey	2023
Statistical Methods for Estimating Area for Land-Cover and land-Cover Change Maps and Methods for Evaluating Sampling Designs to Improve Efficiency of these Analyses. U.S. Geological Survey	2020 - 2022
Environmental Epidemiology. Innovation Project of LREIS, Chinese Academy of Sciences	2017-2019

PRESENTATIONS

Methods for Estimating Activity data, Reducing Emissions from Deforestation and forest Degradation+ (REDD+ Seminar), <i>SUNY-ESF</i>	2022
Estimating Area of Land Cover and Land Cover Change. <i>State Key Laboratory of Resources and Environment Information System, Institute of Geographic Sciences and Natural Resources, Chinese Academy of Sciences</i>	2021
Spatial and Temporal Analysis of Water Pollution in Huai River Basin from 1987 to 2005. 11 th Japan-China-Korea Graduate Student Forum at <i>University of Tsukuba, Japan</i>	2018

TEACHING EXPERIENCE

Graduate Teaching Associate

SUNY-ESF

- APM391 Introduction to Probability & Statistics 3 Semesters
- ESF300 Introduction to Geospatial Information Technologies 3 Semesters

China University of Geosciences

- Computer Language Programming (C++) 2 Semesters

AWARDS AND HONORS

Travel Scholarship for Outstanding Graduate Student	2020
Professional First-Class Scholarship	2018
Silver Prize in 11 th Japan-China-Korea Graduate Student Forum, Japan	2018
Professional First-Class Scholarship	2017
Professional Third-Class Scholarship	2013
Outstanding Student Leader	2013

SERVICE

<i>Intern Assistant, United Nations International Conference on Space-based Technologies for Disaster Risk Reduction - "A Policy Perspective" and Commemoration of 10 Years of UN-SPIDER" Conference. UNITED NATIONS Office for Outer Space Affairs</i>	2019
<i>Student Assistant, Conference of Spatial Accuracy Assessment in Natural Resources and Environmental Science. Beijing, China</i>	2018

INTERNSHIP

Intern, <i>UNITED NATIONS Office for Outer Space Affairs</i>	2019
GIS Software Development Engineering Intern, <i>ESRI</i>	2016

TECHNICAL KNOWLEDGE AND SKILLS

<i>Language</i>	R, Python, SAS, JavaScript
<i>Statistical Tools</i>	SPSS, Minitab, GWR, GeoDa
<i>Professional Software</i>	ArcGIS, Google Earth Engine