Babs

Babs research interests focus on cartographic generalization, impacts of scale and resolution on geographic data and models, graphic and database representations of uncertainty, and on visualization tools for geographic modeling. She is Director of the Meridian Lab, a research facility dedicated to visualization and modeling geographic information and technology, specifically in the areas of environmental modeling. Recently completed projects include work with USGS to develop intermediate scale versions of the National Hydrography dataset, and an NSF-funded project to integrate U.S. Census microdata with summary files. Current projects in addition to CroScaler include developing new metrics for distance, area and volume measurement on digital terrain models that take into account elevation, slope, and curvature (i.e., surface-adjusted). Ongoing work with USGS uses machine learning to classify landscape types to tailor data modeling algorithms to varying conditions of terrain roughness, settlement patterns, and climate.

George

George Charisoulis is currently a PhD candidate in the Department of Geography at the University of Colorado at Boulder, with research specialization in GIScience. His research focuses on the impact that missing data and distance uncertainties introduce in location allocation modeling, further asking the questions, how can these uncertainties be measured? Is there a way to filter space for location-allocation models and make a logical conclusion even when lacking data? Working with advisor Dr. Barbara Buttenfield, he is exploring the degree to which modeling (scripting) coupled with the use of machine learning can be used to investigate good candidate locations that fit threshold criteria for siting Anaerobic Digesters. His education background in sustainability through a master’s degree in Denmark at Aalborg University, has helped to conceptually and theoretically understand the constrains that come with renewable energy and international policies that need to be examined.

Kate

Kate is a master’s student working with advisor Dr. Barbara Buttenfield. Her research interests include geovisualization, visualization of spatio-temporal data and uncertainty, and exploratory analysis using visual tools. She graduated from the University of Minnesota- Twin Cities in 2018 with a B.S. in Geography. Previous projects she has worked on include research with Dr. Somayeh Dodge on DYNAMOvis, an interactive, exploratory visualization tool for GPS tacking data.

**Jinwen Xu**

Jinwen Xu is a Ph.D. student in the Department of Geography and Environment, University of Hawaii at Manoa. He is also a student affiliate of East-West Center. He has a bachelor’s degree in Urban Planning at Beijing Normal University. He also obtained a master’s degree in Urban and Environmental Planning in the School of Geographical Sciences and Urban Planning, Arizona State University. He has been a graduate teaching assistant at Arizona State University and University of Hawaii at Manoa for 3 years. He has great interest in Geographical Information Science, spatial analysis, social media big data, and natural disasters. His current research focuses on geospatial analysis on disaster-related Twitter data.

Nodari Sitchinava

Dr. Nodari Sitchinava is an associate professor at the Department of  
Information and Computer Science, University of Hawaii at Manoa. He  
received his Ph.D. from University of California, Irvine in 2009. His  
research focuses on designing efficient algorithms and data structures  
that are both parallel (can be run using multiple processors) and  
I/O-efficient (utilize faster local memory, e.g. caches, efficiently).

### Yi Qiang

Dr. Yi Qiang is Assistant Professor at the School of Geosciences, University of South Florida in Tampa. Previously he was on the faculty at the Department of Geography and Environment, University of Hawaii – Manoa. Dr. Qiang obtained his Ph.D. from Ghent University at Belgium in 2012 and worked as post-doctoral research associate at Louisiana State University and Earth Lab here at University of Colorado - Boulder. His research focuses on spatiotemporal data modeling, geovisualization, disaster risk, resilience, and Coupled Natural and Human (CNH) systems. Dr. Qiang is interested in developing innovative data models, analytical frameworks and software tools to derive useful information and to advance knowledge from diverse forms of geospatial data.