



CURRICULUM VITAE

Qian Song GIS Specialist

Houston Advanced Research Center (HARC)
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Education:

Master of Science, Geographic Information Science, 2016
University of Redlands, California, USA

Master of Agriculture, Fishery Resources, 2014
Shanghai Ocean University, Shanghai, China

Bachelor of Science, Marine Technology, 2011
Shanghai Ocean University, Shanghai, China

Professional Experience:

GIS Specialist, Houston Advanced Research Center, The Woodlands, Texas, 2017-present

- Create digital mapping products and interactive web applications for various projects
- Organize and maintain geospatial data library and data portal site
- Collaborate with researchers to develop research ideas and analytical approaches for various projects

GIS Intern, University of Redlands, Redlands, California, 2015-2016

- Worked with Marine Conservation Institute to develop a web application which lets users view information of biogeographic regions and existing marine protected areas and draw new such areas to guide future conservation efforts
 - A 3-D enterprise geodatabase
 - Web Services: geoprocessing services, map services, and feature services

Research Assistant, Shanghai Ocean University, Shanghai, 2011-2015

- Analyzed the parallel performance of FVCOM 2.6 based on MPI using Tuning and Analysis Utilities(TAU)
- Established and validated a Tonkin Gulf tidal model and improved it with satellite altimeter data

Research Assistant, University of Massachusetts, Massachusetts, 2015-2015

- Created a 3-D animation to reflect the 1978-2011 global FVCOM results

Presentations:

Evaluating the Biogeographic Coverage of the World's Marine Protected Areas, Esri User Conference, San Diego, CA, Jun 2016

Promoting the Protection of Marine Biogeographic Regions, Esri Ocean GIS Forum, Redlands, CA, Nov 2016

Publications:

Qian Song, Song Hu (2011). Analysis of the Parallel Computing Performance of Ocean Model FVCOM 2.6 Using TAU. *Computer Engineering and Science*, 33, 87-93

Xitao Zheng, Yongwei Zhang, **Qian Song**, & Hong Ding (2010). A New Approach on Teeth Image Recognition. *International Conference on Image Processing, Computer Vision, & Pattern Recognition*, July 12-15, 2010, Las Vegas, NV, 769-773