

# Honglian Shen



## COUNTRY OF ORIGIN / BIRTH COUNTRY

China

## EDUCATIONAL BACKGROUND

Water Conservancy and Hydropower Engineering

### WHY I CHOSE HYDROINFORMATICS:

My background is Water Conservancy and Hydropower Engineering in Hohai University in China. And in my previous study, I know that in the design process of a dam. We need to a lot of experiment, which means we will spend a lot of money and time on it. However, if we have some models which can be filled with different parameters to simulate the work of the dam. There is no need to do the experiment, and we can speed up the process of the building of the dam in a significant degree. Besides, Hydroinformatics is a specialty has great relationship with computers and programs, which I am very interested in.



### HOW I WILL USE THE KNOWLEDGE GAINED IN THE PROGRAM BACK IN MY OWN COUNTRY:

In China, there are many everglades which have different impacts on the environment and the future climate change. So what I want is to build some models, which will can be insert with different parameters to simulate all these everglades. At last, we can know what will these everglades do to our environment and how we can deal with these situations.

Secondly, there must be plenty of advanced experience in USGS about how to protect the everglades and how to build a model for it. So I also want take these experience back to my country to get a better management of everglades.



### RESEARCH INTERESTS

(OPTIONAL – DESCRIBE RESEARCH THAT YOU HAVE PREVIOUSLY DONE (OR WOULD LIKE TO DO IN THE FUTURE))

Infact, I do some research on the building of the hydropower plant and the design of super-high dam during my undergraduate study. But now, I am more specific in Hydroinformatics. So my idea is to combine both two aspects, which means that I want to do some research on how to build a model in hydropower phase. For example, building a model for the running of a hydropower station to know the best way to deal with the allocation of water, making a real-time control for flood risk mitigation.

