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Main Research Interests

- **Hydraulic modeling (coupled 1-2D for flood plain, 2D for coastal zone, 3D for flow around river training structures, sediment transportation in river and coastal zone)**
- **Assessment of vulnerability to natural disaster**
- **Impacts of CC on water resource (flood, drought, water management)**
- **Predictions in Ungauged Basins**

Barriers

- **Hydraulic modeling: lack of 3D computer models both for flow and sediment transportation, computational capacity is quite low, lack of data to verify the results**
- **Assessment of vulnerability to natural disaster: lack of historical data and collaborators in social/economic sciences**
- **Impacts of CC on water resource (flood, drought, water management): lack of tools (models) and computational scenarios**
- **Predictions in Ungauged Basins: methodology and approach for larger basins as Me Kong, Red river,**



THANK YOU!