



US Army Corps of Engineers

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EDUCATION

MS (1999) Civil Engineering, University of California, Davis
BS (1997) Civil Engineering, University of California, Davis

EXPERIENCE

2007–present: Senior Hydraulic Engineer, Hydrology and Hydraulics Technology Division, HEC. Dam breach modeling and river analysis studies; research, development, and application of geographic information systems (GIS) methods for surface water modeling; and development of GIS-based flood warning and response systems. Development of HEC-RAS Mapper.

1999 – 2007: Hydraulic Engineer, HEC. Research, development, and application of GIS methods for surface water modeling, flood damage analysis, and risk communication; riverine, wetland restoration, hydrology, and watershed impact analysis studies. Development of HEC-GeoRAS for ArcView/ArcGIS. Development of HEC-FWRS flood warning and response system and application to Susquehanna River and San Antonio River Systems.

1996 – 1999: Civil Engineer Intern, HEC. Riverine and watershed studies; investigation of remote sensing techniques; effects of riverine wetlands for surface water hydrology; application of GIS methods for hydrologic analysis; development of GIS methods for surface water modeling. Development of HEC-GeoRAS for ArcInfo.

TECHNICAL SPECIALTIES

River hydraulics, dam breach analysis, surface water hydrology, and GIS for surface water modeling.

PROFESSIONAL REGISTRATIONS, AFFILIATIONS, and AWARDS

Registered Professional Engineer, California, 2001
Diplomate, Water Resources Engineer (D.WRE)
Member: EWRI; AGU; Tau Beta Pi