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Alejandro Sánchez (Alex), has been a Senior Hydraulic Engineer of the Hydrology and Hydraulics Technology (HH&T) Division at the Hydrologic Engineering Center (CEIWR-HEC-HH) since September of 2015. Dr. Sánchez is a member of the River Analysis System (HEC-RAS) and Hydrologic Modeling System (HEC-HMS) development teams. These software packages are industry standards in hydrologic and hydraulic modeling studies such as flood forecasting, flood risk analysis, inundation mapping, dam and levee safety, reservoir sediment analysis, and environmental analysis.

Before working at HEC, Dr. Sánchez was a Research Hydraulic Engineer for 8 years at the Coastal and Hydraulics Laboratory (CHL) of the U.S. Army Corps of Engineers Engineer Research Development Center in Vicksburg, MS. There, he was the Principle Investigator and lead developer of the Coastal Modeling System, which is a coupled suite of models for simulating coastal hydrodynamics, waves, sediment transport, and morphology change. In addition to model development, Dr. Sánchez also conducted laboratory experiments, user technical support, training through workshops and webinars, and performed several project studies using a wide range of USACE models and software tools.

Dr. Sánchez holds a Bachelor's degree in Oceanography from the Autonomous University of Baja California, Mexico, a Master of Science degree in Ocean and Resources Engineering from the University of Hawaii at Manoa, and a Doctorate degree in Computational Hydrosociences from The University of Mississippi. Dr. Sánchez's technical specialties included computational methods for fluid dynamics and sediment transport, morphodynamic modeling, coastal and riverine processes, and data analysis techniques.

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