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EDUCATION

BS (1991) Civil Engineering, University of Colorado, Boulder, CO
MS (1995) Civil Engineering, University of Colorado, Boulder, CO
PhD (2000) Civil Engineering, Cornell University, Ithaca, NY

EXPERIENCE

2000 – present: Senior Hydraulic Engineer, Hydrologic Engineering Center, IWR, USACE.
Reservoir analysis studies, use of flood forecasting in reservoir operation, reservoir optimization, water supply studies, risk analysis and flood frequency analysis.

short periods: Consultant, Institute for Water Resources, Alexandria, VA. Performed reservoir flood control modeling, Consultant, PG&E, San Francisco, CA. Developed performance metric for hydropower system operation.

1991 – 1995: Water Resource Engineer, Denver Water (Denver, CO.) Coordinated operation of surface water collection system, analysis of reservoir operation and water rights, and performed operations modeling and optimization.

TECHNICAL SPECIALTIES

Reservoir system modeling; multi-objective reservoir optimization; extreme event frequency analysis; stochastic hydrology; risk analysis using Monte Carlo methods

PROFESSIONAL REGISTRATIONS, AFFILIATIONS, and AWARDS

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