



James C. Y. Guo

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Research Interests:

- Statistical and Stochastic Hydrologic Analyses
- Open Channel Hydraulics
- River Morphology and Floodplain Hydraulics
- Watershed Modeling and Management
- Conformal Mapping Technique for Potential Flows
- Numerical Simulations for Laminar and Turbulent Flows
- Pipe Network Simulation and Analysis
- Groundwater Modeling
- Risk Analysis and Optimization Techniques

Engineering Experience and Applications

- Urban Stormwater Green Concept and Integrated LID Designs
- Urban Drainage System Design and Flow Analysis
- Regional Master Drainage Planning for Flood Mitigation
- Storm Water Detention System Design and Analysis
- Storm Water Retention System and Wetland Management
- Storm Water Quality Control and Groundwater Recharge
- Floodplain Hydraulics and Encroachment Management
- Remote Sensing and Flood Forecasting

Honors and Awards

- 1996 Honor Award for Technical Achievement, presented by the Colorado Engineering Council. USA.
- 2006 ASCE Best Hydrologic Engineering Technical Paper Award, presented by Journal of Hydrologic Engineering, presented by American Society of Civil Engineers,
- 2007 Friend of UDFCD Award presented by the Urban Drainage and Flood Control District at 2007 UDFCD Annual Conference, Denver, Colorado.
- 2008 Achievement Award presented by the Rocky Mountain Chinese Society of Science and Engineering at 2008 MCSSE Annual Conference, Colorado.
- 2011 The Researcher of the Year, College of Engineering and Science, U of Colorado Denver.
- 2017 ASCE Best Hydrologic Engineering Technical Paper Award, presented by Journal of Hydrologic Engineering, presented by American Society of Civil Engineers.