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a. Professional Preparation

Wuhan University	Wuhan, PR China	Hydraulics and River Dynamics	B.S.	1989
Tsinghua University	Beijing, PR China	Hydraulic Engineering	M.S.	1992
University of Mississippi	Oxford, MS	Computational Hydroscience & Engr.	Ph.D.	1998

b. Appointments

08/2018- present	Professor, Department of Civil and Architectural Engineering and Mechanics, University of Arizona, Tucson, Arizona.
06/2011- 07/2018	Associate Professor, Department of Civil Engineering, University of Arizona, Tucson, Arizona.
08/2006 – 06/2011	Assistant Professor, Department of Civil Engineering, University of Arizona, Tucson, Arizona.
07/2005- 07/2006	Associate Research Professor, Division of Hydrologic Sciences, Desert Research Institute, Nevada System of Higher Education, Las Vegas, Nevada.
01/1999 – 06/2005	Assistant Research Professor, Division of Hydrologic Sciences, Desert Research Institute, Nevada System of Higher Education, Las Vegas, Nevada.

c. Products

(i) Up to five products most closely related to this proposal:

Duan, J. G., Bai, Y, Dominguez, F., Rivera, E., Meixner, T. (2017) "Framework for incorporating climate change on flood magnitude and frequency analysis in the upper Santa Cruz River", *Journal of Hydrology*, 549, 194-207. http://dx.doi.org/10.1016/j.jhydrol.2017.03.042.

Yu, C. and Duan, Jennifer G., "Simulation of surface runoff using hydrodynamic model", *Journal of Hydrologic Engineering*, doi:10.1061/(ASCE)HE.1943-5584.0001497.

Yu, C.S. and Duan, J.G. (2014) "High Resolution Numerical Schemes for Solving Kinematic Wave Equation", *Journal of Hydrology*, DOI: 10.1016/j.jhydrol.2014.08.003.

Yu, C.S. and Duan, J.G. (2014) "Two-dimensional hydrodynamic model for surface flow routing", *Journal of Hydraulic Engineering*, DOI:10.1061/(ASCE).HY.1943-7900.0000913.

Bai, Y. and Duan, J.G. (2014) "Simulating unsteady flow and sediment transport in vegetated channel network", *J. of Hydrol.*, http://dx.doi.org/10.1016/j.jhydrol.2014.04.030.

(ii) Up to five other significant products:

Zhang, S., Duan, J. G., and Strelkoff, T. S. (2013) "Gain-scale non-equilibrium sediment transport model for unsteady flow." *Journal of Hydraulic Engineering*, 139(1), 22-36.

Yu, C.S. and Duan, J.G. (2012) "Two-dimensional depth-averaged unsteady turbulent flow model over obstacles", *Journal of Hydraulic Research*, 50:6, 599-611.

He, L., Duan, J .G., Wang, G. Q., and Fu, X. D. (2012), "Numerical Simulation of Unsteady Hyperconcentrated Sediment-Laden Flow in the Lower Yellow River" *J. Hydraul. Eng.*, Vol 138:11, 958-969.

Zhang, S., Duan, J. G., and Strelkoff, T. S., Bautista, E. (2011). "Simulation of unsteady flow and soil erosion in irrigation furrows." *J. Irrigation and Drainage Eng*., Vol 138, No. 4, 294-303.

Zhang, S**.** and Duan, J. G. (2011), "1D finite volume model of unsteady sediment transport model." *J. Hydrology,* Vol. 405, Issue 1-2, 57-68.

d. Synergistic Activities

- Adjunct faculty, *Department of Hydrology and Water Resources*, *Department of Agriculture and Biosystem Engineering*, University of Arizona, Tucson.
- Associate Editor, *Journal of Hydrology*, Elsevier Publication.
- Chair, *ASCE Technical Committee of Computational Hydraulic*. Chair *ASCE Task Committee on Computational Modeling of Sediment Transport Processes*.
- Member, *Living River Technical Committee*, Pima County Association of Government, Tucson, AZ
- Faculty Advisor, *Women in Civil Engineering (WICE)*, University of Arizona.