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ACADEMIC POSITIONS

- **NRC Research Associate at EPA**, Washington DC, April 2016-current
- **Research Associate** of Department of Geology and Earth System Science Interdisciplinary Center, University of Maryland College Park, MD. 2010 – Current.
- **Assistant Research Scientist** of Maryland Center for Environmental Science, Solomons, MD. 2009 – 2010
- **Postdoctoral Fellow** of Marine Science Program, Texas A&M University Galveston, Galveston, TX. 2005 – 2009.

EDUCATION

- **B.Sc. Geology** Chengdu University of Technology, China 1994
- **M.Sc. Geochemistry** Institute of Geochemistry, CAS, China 1997
- **Ph.D., Earth Environmental Sciences** Tulane University, New Orleans, USA 2005

PUBLICATIONS – maximum=10 (Selected):

- Duan, S.W.**, T.A. Newcomer-Johnson, P. Mayer, and S.S. Kaushal. 2016. Roles of stormwater control measures and stream restoration in phosphorus retention in suburban/urban watersheds across flow conditions. *Water*, 8, 390; doi:10.3390/w8090390.
- Duan, S.W.**, N.H. Chen, S. Kaushal, P. Chigbu, A. Ishaque, E. May. 2015. Dynamics of dissolved organic carbon and nitrogen in the Maryland Coastal Bays. *Estuarine, Coastal and Shelf Science*, 164 (5), 451–462. doi.org/10.1016/j.ecss.2015.08.004.
- Duan, S.W.**, and S.S. Kaushal. 2015. Salinization alters fluxes of bioreactive elements from stream sediments and soils across land use. *Biogeosciences* 12, 7411-7448. doi:10.5194/bgd-12-7411-2015.
- Duan, S.W.**, R.M.W. Amon, R.L. Brinkmeyer. 2014. Tracing sources of organic matter in adjacent urban streams having different degrees of channel modification. *Science of the Total Environment* 485-486, 252-262.
- Duan, S.W.**, K. Delaney-Newcomb, S. S. Kaushal, S. E. G. Findlay, K. T. Belt. 2014. Potential effects of leaf litter on water quality in urban watersheds. *Biogeochemistry* 121: 61-80.
- Duan, S.W.**, R.T. Powell, and T. S. Bianchi. 2014. High frequency measurement of nitrate concentration in the Lower Mississippi River, USA. *Journal of Hydrology* 519: 376–386.
- Duan, S.W.**, and S. S. Kaushal. 2013. Warming increases carbon and nutrient fluxes from sediments in streams across land use. *Biogeosciences* 10: 1193-1207.
- Duan, S.W.**, S. S. Kaushal, P. M. Groffman, L. E. Band, and K. T. Belt. 2012. Phosphorus export across an urban to rural gradient in the Chesapeake Bay watershed. *Journal of Geophysical Research – Biosciences* 117, G01025, doi: 10.1029/2011JG00178.
- Duan, S.W.**, Allison, M.A., Bianchi, T.S., McKee, B.A., Shiller, A. M., Guo, L. and Rosenheim, B. 2013. Sediment, Organic carbon, Nutrients, and Trace Elements: Sources, Transport, and Biogeochemical Cycles in the Lowermost Mississippi River, In “Biogeochemical Dynamics at Major River-Coastal Interfaces: Linkages with Global Climate Change” Edited by T.S. Bianchi, M.A. Allison and W.J. Cai, Chapter-16, pp. 397-420, Cambridge University Press.
- Duan S.W.**, R.W.M. Amon, T.S. Bianchi and P.H., Santschi. 2011. Temperature control soluble reactive phosphorus in the lower Mississippi River? *Estuaries and Coasts* 34: 78-89.

SYNERGISTIC ACTIVITIES

- Reviewer of NSF proposals, and manuscripts of 20 peer-viewed journals
- Organizing AGU Fall Meeting section 2013.

NAMES OF ADVISORS

- Thomas Bianchi, Ph.D. University of Florida
- Rainer Amon, Ph.D. Texas A&M University at Galveston
- Sujay Kaushal, Ph.D. University of Maryland at College Park

NAMES OF GRADUATE ADVISEES

None

COLLABORATORS IN THE PAST 24 MONTHS

- Dr. Mayer, Paul US EPA
- Dr. Johnson, Thomas US EPA
- Dr. Powell, Rodney T. Central Carolina Community
- Dr. Brinkmeyer, Robin L. Texas A&M University at Galveston
- Dr. Findlay, Stuart E. G., Cary Institute of Ecosystem Studies
- Dr. Belt, Kenneth T., USDA Forest Service Northern Research Station
- Dr. Rosenfeldt, Erik, Hazen and Sawyer
- Dr. Amit Pramanik, Water Environment Research Foundation
- Ph.D. Sudhir Murthy District of Columbia Water and Sewer Authority
- Delaney-Newcomb, Katie Pacific Northwest Region of the U.S. Forest Service