

YIN TANG

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EDUCATION

PhD Water Resources Engineering	1/2014~Present
University of Central Florida	GPA: 3.9
Dissertation: "Understanding physical controls on water balance at watersheds across time scales"	
Advisor: Dr. Dingbao Wang	
MS Physical Geography	9/2008~7/2011
Beijing Forestry University, Beijing, China	GPA: 3.5
BS Soil and Water Conservation	9/2004~7/2008
Beijing Forestry University, Beijing, China	GPA: 3.4

PROFESSIONAL EXPERIENCE

Graduate Research Assistant	1/2014~Present
Department of Civil, Environmental, and Construction Engineering, UCF	
<ul style="list-style-type: none"> ➤ Developed a hydrologic model using Soil and Water Assessment Tool (SWAT) to evaluate climate change and land use change impact on floods in the Lower St. Johns River. <u>Project: Integration of hydrologic and hydrodynamics models to inform an economic valuation of the wetlands as related to flood abatement and flood insurance rates.</u> ➤ Developed a method to estimate the transpiration of Carolina willow, and conducted field work for installing meteorological stations. <u>Project: Transpiration by Carolina willow (<i>Salix caroliniana</i>): Environmental effects and cost-efficient management.</u> 	
Postgraduate Research Assistant	7/2011~12/2013
Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences	
<ul style="list-style-type: none"> ➤ Quantified the impacts of extreme precipitation on runoff in the Yellow River Basin. <u>Project: Study on the regional variation of environmental risk of China and the world.</u> 	
Graduate Research Assistant	7/2008~6/2011
Department of Soil and Water Conservation, Beijing Forestry University	
<ul style="list-style-type: none"> ➤ Quantified the hydrological responses of Miyun Reservoir drainage basin to climate change and land use change. <u>Project: Eco-hydrological based adaptive watershed management for improving the water quantity and quality of Miyun Reservoir.</u> 	

JOURNAL PAPERS

Under Review:

- [1] Wang, D., J. Zhao, Y. Tang, M. Sivapalan, 2015. Thermodynamic Basis of Budyko and L'vovich Formulations of Annual Water Balance: Proportionality Hypothesis and Maximum Entropy Production, *Water Resources Research*, under review. (IF= 3.709)
- [2] Bacopoulos, P., Y. Tang, D. Wang, S. Hagen, H. Demissie, 2015. Integrated hydrologic-hydrodynamic

modeling of flooding in the lower St. Johns River Basin caused by Tropical Storm Fay (2008). *Journal of Hydrology*, under review after revision, (IF= 2.693)

Published:

- [1] Wang, D., and Y. Tang, 2014. A one-parameter Budyko model for water balance captures emergent behavior in Darwinian hydrologic models, *Geophysical Research Letters*, 41, doi:10.1002/2014GL060509. (IF= 4.456)
- [2] Zhang, X., Q. Tang, M. Pan, Y. Tang, 2014. A Long-Term Land Surface Hydrologic Fluxes and States Dataset for China. *Journal of Hydrometeorology*, 15, 2067–2084, doi: <http://dx.doi.org/10.1175/JHM-D-13-0170.1>. (IF=3.573)
- [3] Tang, Y., Q. Tang, F. Tian, Z. Zhang, G. Liu, 2013. Responses of Natural Runoff to Recent Climatic Variations in the Yellow River Basin, China. *Hydrology Earth System Science*, 17, 4471-4480, doi: 10.5194/hess-17-4471-2013. (IF= 3.642)
- [4] Tang, Q., X. Zhang, Y. Tang, 2013. Anthropogenic impacts on mass change in North China. *Geophysical Research Letters*, 40, 3924–3928, doi:10.1002/grl.50790. (IF= 4.456)
- [5] Liu, G., Tang, Q., Liu, X., Dai, J., Zhang, X., Ge, Q., and Tang, Y., 2013. Spatiotemporal analysis of ground-based woody plant leafing in response to temperature in temperate eastern China. *International Journal of Biometeorology*, doi: 10.1007/s00484-013-0762-8. (IF= 2.59)
- [6] Tang, Y., Z. Zhang, J. Wu, Y. Zhang, 2010. Two methods to estimate the non-point source pollution load of the typical small watershed in Miyun area. *Journal of Irrigation and Drainage*, 29(6):115-119. (in Chinese)

CONFERENCE PRESENTATIONS

- [1] Wang, D., and Y. Tang, 2014. Time-Scale Invariance as an Emergent Property in Water Balance. AGU Fall Meeting, session H43L. San Francisco, USA. (Poster)
- [2] Tang Y. and Tang Q., 2013. Wind reduction in recent decades also by atmospheric stability in China. AGU Fall Meeting, session H51N. San Francisco, USA. (Poster)
- [3] Tang Y. and Tang Q., 2012. Responses of Hydrological Cycle to Recent Climatic Changes in the Yellow River Basin. AGU Fall Meeting, session H21F. San Francisco, USA. (Poster)
- [4] Tang Y. and Tang Q., 2011. Climate Extremes: Impacts of extreme climate on simulated runoff in the Yellow River Basin. AGU Fall Meeting, session GC51E. San Francisco, USA. (Poster)

HONORS & AWARDS

Best Master Thesis Award, Beijing Forestry University, 2011

Learning Excellence Award for Graduate Student, Beijing Forestry University, China, 2009, 2010, 2011

Learning Excellence Award for Undergraduate Student, Beijing Forestry University, China, 2005, 2006, 2007

Leadership Award for Students Associations, Beijing Forestry University, China, 2006, 2009, 2010

EXTRACURRICULAR ACTIVITIES & COMMUNITY SERVICE

Volunteer, Carillon Elementary school for SPACE Terms program, 10/22/2014

General Secretary, International Association of Chinese Youth in Water Sciences (CYWater), 05/2012~12/2013