

**YIN TANG**

Department of Civil, Environmental, and Construction Engineering  
 University of Central Florida  
 Orlando, FL 32816  
 Phone: +1-407-800-2206  
 Email: [yin.tang@knights.ucf.edu](mailto:yin.tang@knights.ucf.edu)

**EDUCATION**

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| <b>PhD Water Resources Engineering</b>  | 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   |                |
| <b>MS Physical Geography</b>  | 9/2008~7/2011  |
| Beijing Forestry University, Beijing, China   | GPA: 3.5       |
| <b>BS Soil and Water Conservation</b>   | 9/2004~7/2008  |
| Beijing Forestry University, Beijing, China   | GPA: 3.4       |

**PROFESSIONAL EXPERIENCE**

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| <b>Graduate Research Assistant</b>  | 1/2014~Present |
| Department of Civil, Environmental, and Construction Engineering, UCF   |                |
| <ul style="list-style-type: none"> <li>➤ 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></li> <li>➤ 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></li> </ul> |                |
| <b>Postgraduate Research Assistant</b>  | 7/2011~12/2013 |
| Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences  |                |
| <ul style="list-style-type: none"> <li>➤ 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></li> </ul>  |                |
| <b>Graduate Research Assistant</b>  | 7/2008~6/2011  |
| Department of Soil and Water Conservation, Beijing Forestry University  |                |
| <ul style="list-style-type: none"> <li>➤ 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></li> </ul>  |                |

**JOURNAL PAPERS**

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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**

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- [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**

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**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**

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**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