

## Associate Professor WU Yongping

College	College of Physical Science and Technology
Current Position	Associate Professor
Types of Tutor	Master Tutor
Language	Chinese/English
Education	<p>2014.08-2017.11 Post Doctor, Ecological Complexity and Modeling Laboratory Department of Botany and Plant Sciences, University of California, Riverside</p> <p>2008.09-2011.12 Ph.D. of Science, College of Atmospheric Science, Lanzhou University.</p> <p>2003.09-2007.06 Master of Education, College of Physical Science and Technology, Yangzhou University.</p> <p>1993.09-1997.06 Bachelor of Science, College of Physical Science and Technology, Yangzhou University.</p>
Research Interests	Climate change , Short-term prediction , Atmospheric water cycle, Ecosystem
Selected Publications	<ol style="list-style-type: none"> <li>1. Jing Gong, <b>Yong-Ping Wu*</b>, LiLi , Parameters estimation in Ebola virus transmission dynamics model based on machine learning, <i>Physica A</i>, 2019.6.22 , 536: 1-11.</li> <li>2. Wei Zhang, Juan Zhang, <b>Yong-ping Wu*</b>, Li Li, Dynamical Analysis of the SEIB Model for Brucellosis Transmission to the Dairy Cows with Immunological Threshold, <i>Complexity</i>, 2019, 3: 1-13.</li> <li>3. G.-Q. Sun, Cui-Hua Wang, Li Li, <b>Yong-Ping Wu*</b>, Zhen Jin, Effects of feedback regulation on vegetation patterns in semi-arid environments , <i>Applied Mathematical Modelling</i>, 61 (2018): 200–215.</li> <li>4. Meng Zou, Shaobo Qiao, Taichen Feng,</li> </ol>

	<p><b>Yongping Wu*</b>, Guolin Feng, The Interdecadal Change in Anomalous Summertime Water Vapor Transport Modes over the Tropical Indian Ocean-Western Pacific in the mid-1980s, <i>International Journal of Climatology</i>, 13 Jan. 2018,3:1-14.</p> <p>5. <b>Y. P. Wu</b>, Y. Y. Hu, H. X. Cao, C. F. Fu, G. L. Feng*, Computing Entropy Change in Synoptic-scale System. <i>Physica A</i>. 2018, 494:163-168.</p> <p>6. <b>Yong-Ping Wu</b>, Chun-yangzi Zhu, Guo-Lin Feng*, Mathematical Modeling of Fog-Haze Evolution. <i>Chaos solitons &amp; fractals</i>. 2018, 107:1-4.</p> <p>7. <b>Wu, Yong-Ping</b>, Guo-Lin Feng, and Bai-Lian Li. Interactions of Multiple Atmospheric Circulation Drive the Drought in Tarim River Basin. <i>Scientific reports</i> , 2016 6: 26470 .</p> <p>8. <b>Wu Yong-Ping</b>. Climate change is a potential factor for the emergence of pattern transitions in spatial epidemics: Comment on “Pattern transitions in spatial epidemics: Mechanisms and emergent properties” by Gui-Quan Sun et al. <i>Physics of Life Reviews</i>, 2016. Dec, 19: 98-99. doi: 10.1016/j.plrev.2016.10.003</p> <p>9. Feng Guo-Lin, and <b>Yong-Ping Wu</b>. Signal of Acceleration and Physical Mechanism of Water Cycle in Xinjiang, China. <i>PloS one</i> 11.12 (2016): e0167387.</p> <p>10. Gui-Quan Sun, Xue-Zhi Li, Yi Wang, Yong-Ping Wu. Impacts of Climate Change on Biological Dynamics, <i>Discrete Dynamics in Nature and Society</i>, 2016</p> <p>11. Gui-Quan Sun, Su-Lan Wang, Qian Ren, Zhen Jin &amp; <b>Yong-Ping Wu</b>, Effects of time delay and space on herbivore dynamics:</p>
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	<p>linking inducible defenses of plants to herbivore outbreak. <i>Scientific Reports</i> 5(2015):11246 (Corresponding Author).</p> <p>12. <b>Yong-Ping Wu</b> , Guo-Lin Feng , A new algorithm for seasonal precipitation forecast based on global atmospheric hydrological water budget , <i>Applied Mathematics and Computation</i>, 2015, 268: 478-488.</p> <p>13. <b>Yong-Ping Wu</b>, Hong-Xing Cao, and Guo-Lin Feng, Prospective Study on Applications of Non-Equilibrium Thermodynamics to Climate Modeling. <i>Journal of Coastal Research</i>, 73, 342-347 (2015).</p> <p>14. Niu Jinqi, Cao Hongxing, Niu Baoshan &amp; <b>Wu Yongping</b>, Study of Atmospheric Predictability Based on Periphery Theory , <i>Meteorological and Environmental Research</i>, 6(2015) 1-4</p> <p>15. <b>Yong-Ping Wu</b>, Yong-Ping Shan, and Guo-Lin Feng, Characterizations of Water Vapor Flux and Precipitation over Arid Region under Climate Change. <i>Materials Science and Engineering</i>, 440:1028-1031 (2014).</p> <p>16. Min Ye, <b>Yong-Ping Wu</b>, Jie Zhou et al. Objective quantification of the water vapor path influencing precipitation in North China in summer. <i>Acta. Physica. Sinica</i>. 63(12), No.129201 (2014) (Corresponding Author).</p> <p>17. Min Ye, Zhong-Hua Qian, <b>Yong-Ping Wu</b>. Spatiotemporal evolution of the droughts and floods over China. <i>Acta. Physica. Sinica</i>. 62(13), No. 139203 (2013) (Corresponding Author).</p> <p>18. <b>Yong-Ping Wu</b>, Yong-ping Shen, B. Larry Li. Possible Physical Mechanism of Water</p>
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	<p>Vapor Transport over Tarim River Basin. <i>Ecological Complexity</i>, 9: 63-70 (2012)</p> <p><b>Yong-Ping Wu</b>, Chenghai Wang, Yongping Shen. Spatiotemporal evolution characteristics of precipitation in Tarim River Basin during 1960-2009. 2011 International Conference on Electronics, Communications and Control (ICECC) 7: 9-11 (2011).</p>
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