

EDUCATION	<p><i>Bachelor of Engineering</i>, Hydrology and Water Resources School of Water Resources and Hydropower Engineering, Wuhan University</p> <p><i>Master of Engineering</i>, Hydrology and Water Resources Institute of Hydrology and Water Resources, Tsinghua University, expected July 2015</p>
COMPUTER SKILLS	<p><i>Languages & Software:</i> Lisp, C, Python, L^AT_EX ; Matlab, Mathematica, R, Mysql, Git, vim, ArcGIS, Grapher, AutoCAD .</p> <p><i>Operating Systems:</i> Linux, Windows.</p>
MATH SKILLS	<p>Analysis, Probability Theory, Statistics, Stochastic Process, Linear Algebra, Operations Research, Numerical Analysis, Information Theory, Machine Learning.</p>
ACADEMIC WORK	<p><i>Hydrological Models</i></p> <ul style="list-style-type: none"> • Conceptual Precipitation-Runoff Models: TOPMODEL, XINANJIANG Model, Shanbei Model, HyMod. • Coupling of Water-Heat Correlation Models & Stochastic Soil Moisture Model. • Parameter Estimation: Gene Algorithm, Particle Swarm Optimizer, SCE-UA. • Data-Driven Models: Support Vector Machine, Artificial Neural Network. <p><i>Stochastic Hydrology</i></p> <ul style="list-style-type: none"> • Hydrological Time Series Analysis • Information Theory Applied In Hydrology <p><i>Hydrometeorology</i></p> <ul style="list-style-type: none"> • Boundary Layer Theory • Comparison of Evapotranspiration Equations <p><i>Field Experiments</i></p> <ul style="list-style-type: none"> • Soil Characteristic Field Experiments and Hydrometeorology Observation Station Construction in the Upper Hebei Basin • Plants and Soil-Water Characteristic Investigation in Talimu Watershed, Xinjiang Province
ACADEMIC EXPERIENCE	<p><i>Presentation</i></p> <ul style="list-style-type: none"> • Oral Presentation in the The 2nd and 3rd CAS/THU Hydrology and Water Resource Symposium • Poster Presentation in the American Geophysical Union 2014 Meeting <p><i>Publication</i></p> <ul style="list-style-type: none"> • Pan, B. and Cong, Z. Information Analysis of Watershed Hydrological Patterns across Temporal Scales (to be submitted).