

Baoxiang Pan

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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 Concentration: Stochastic Hydrology, Hydrological Simulation</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> <p>Github URL: https://github.com/morepenn</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.• Water-Heat Correlation Models: Monthly Water Balance Models, Budyko.• Stochastic Soil Moisture Model.• Parameter Estimation: Genetic Algorithm, Particle Swarm Optimizer, SCE-UA Algorithm.• 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**

Presentation

- Oral Presentation in the The 2nd CAS/THU Hydrology and Water Resource Symposium
- Poster Presentation in the American Geophysical Union 2014 Meeting
- Oral Presentation in the The 3rd THU/CAS Hydrology and Water Resource Symposium

Publication

- Pan, B. and Cong, Z. Information Analysis of Watershed Hydrological Patterns across Temporal Scales (to be submitted).

**EXTRA
ACTIVITIES
HOBBIES**

Basketball, Start S.F. of the school team.

Erhu, Band 6.

Sketching, Minor in Architecture in Huazhong University of Science and Technology.

Plat Script Writing, Several scripts on show in the school drama club.

Reading, Big fun of science philosophy and science fiction.