# Baoxiang Pan

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**OBJECTIVE**    Ph.D.

**EDUCATION**    *Bachelor of Engineering,* Hydrology and Water Resources
School of Water Resources and Hydropower Engineering, Wuhan University

*Master of Engineering,* Hydrology and Water Resources
Institute of Hydrology and Water Resources, Tsinghua University
expected July 2015
Concentration: Stochastic Hydrology, Hydrological Simulation

**COMPUTER SKILLS**    *Languages & Software:* Lisp, C, Python, Matlab, Mathematica, Mysql, LaTeX ,Github.
*Operating Systems:* Linux, Windows.

**MATH SKILLS**    Analysis, Probability Theory, Statistics, Stochastic Process, Linear Algebra, Operations Research,Numerical Analysis, Information Theory, Machine Learning.

**ENGLISH SCORES**

| GRE | | | | | TOEFL | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Verbal | Quantity | Writing | Total | | Reading | Listening | Speaking | Writing | Total |
| 152 | 170 | 3.5 | 322 | | 29 | 27 | 20 | 26 | 102 |

**ACADEMIC EXPERIENCE**    *Hydrological Models*

- 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 Optimization, SCE-UA Algorithm.
- Data-Driven Models: Support Vector Regression, Artificial Neutral Network.

*Stochastic Hydrology*

- Hydrological Time Series Analysis
- Information Theory Applied In Hydrology

**EXTRA ACTIVITIES**    *Basketball*, Start S.F. of the school team.
*Erhu*, Band 6.
*Sketching*, Minor in Architecture in Huazhong University of Science and Technology.