

## Zhiqiang Chen

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## Education

Ph.D. student, **Forest Genetics**, *SLU*, 2011 up to now.

M.S., **Forest Genetics and Breeding**, *Beijing Forestry University*, China, 2010.

B.S., **Forestry**, *Zhejiang Forestry University*, China, 2007.

## Research

Ph.D. Research

- (1). Quantitative genetic analyses of growth, phenological data for two spruce association populations.
- (2). Quantitative genetic analyses of solid-wood quality traits (wood density, MfA, MoE) for a spruce association study.
- (3). Quantitative genetic analyses of pulp and paper, bio-energy related traits including chemical traits.
- (4). Estimating genetic relationships among growth, phenology, solid-wood, chemical traits for association and breeding program.
- (5). Participating in a spruce association genetics study including individual breeding values prediction and assisting in statistical analyses for spruce association genetics.
- (6). Develop new analytical methods to increase the accuracy of genetic parameters estimation for association studies using multiple pedigree and multiple traits.
- (7). Advance new methodology and analytical approaches to integrate genomic information into selection and breeding programs for out-crossed, long generation tree species.

Master Research

- (1). Studying the key technique of advanced generation breeding in *Pinus tabuliformis*. The work was supported by State Forestry Administration, P.R. China.
- (2). Adaptability of *Pinus densata*, *P. yunnanensis* faranch and *P. tabuliformis* in Tibet. The work was supported by the Nature Science Fund;
- (3). Selection of plant germplasm tolerating soda saline-alkali. This work was supported by the Key Science and National Key Project of Scientific and Technical Supporting Programs;
- (4). Controlled Pollination of *P. yunnanensis* and *P. tabuliformis* in Neimeng and Guangxi province;

## **Awards**

2007-2010 Free tuition scholarship

## **Technique**

1. Master R, SPSS, and SAS, Now, I am studying the ASReml and R statistical software;
2. Taking a workshop of genetic statistical software about ASReml in Gangzhou province, China;

## **Publications**

1. Effects of soda saline-alkali stress on photosynthesis and growth of *Nitraria sibirica*. *Journal of Beijing Forestry University*, 2011, 33(3):31-37. First author;
2. 4. Seedling trial of different plant germplasm resist to soda-saline-alkali soil. *Protection Forest Science and Technology*, 2010, 7(4):23-29. First author;
3. Alkaline-salt tolerance indices of *Ulmus pumila* L. seedling and family evaluations on alkaline-salt tolerance. *Journal of Beijing Forestry University*, 2010, 32(5):74-81. Second author;
4. Alkaline-salt tolerance integrated evaluation of different age *Ulmus pumila* L. families. *Journal of Northeast Forestry University*, 2011 39(3): 8-11. Second author.