

# CURRICULUM VITAE

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## Education

Sep. 2001 – Present. Kunming Institute of Botany, the Chinese Academy of Sciences.  
Specialty: Plant taxonomy, conservation biology, phylogeny and Botanical nomenclature;

**Ph. D. candidate**

## Research

- Taxonomy, Phylogeny & Biogeography on *Quercus* subg. *Cyclobalanopsis*

## Involvement

- The National Key Project (973) for Basic Research on Ecosystem Changes in Longitudinal Range-Gorge Region and Trans-boundary Eco-security of Southwest China (2003CB415100).
- National Natural Science Foundation of China (NSFC) Key Project: Origin & Evolutional Mechanism of Plant Diversity in Extreme Environment in Qinghai-Tibet Plateau.
- National Natural Science Foundation of China (NSFC): Formation and Development of Distributions of *Quercus* sect. *Brachylepides* (A. Camus) Z.K Zhou related with uplifting of Mt. Hengduan
- The Chinese Academy of Sciences Innovation Project: Bio-information System Establishment in NW. China.
- Biodiversity and Conservation of Alpine Scree Area of NW Yunnan;
- Assisting in plant collection and flora analysis in expedition to Southern China;
- Wildflower Resources conservation of NW Yunnan;
- Assessment of Riverine Habitats and Plant Communities in Mt. Dayaoshan, Guangxi Province (Supported by Kadoorie Farm & Botanic Garden (KFBG) Southern China Conservation Projects);
- Butterfly Resources of SW Yunnan (Supported by WWF Tropic Asia Project);

**Aug. 2000 – July 2001.** Herbarium of Yunnan University  
Specialty: Plant identification & plant sampling  
Herbarium Assistant

**Project undertaken:** Collection management and Plant Identification;

**Involvement:** Assessment of disturbance on plant diversity under hydropower construction along Upper Mekong (Supported by Yunnan Forestry Bureau).

**Sep. 1996 – July 2000.** Department of Biology, Yunnan University.  
Specialty: Plant taxonomy, general botany  
Academic rank: Bachelor of Science.

## **Specific skills**

### **Morphology analysis:**

Plant taxonomy  
Leaf anatomy  
Karyological study  
Comparative embryology of plants

### **Molecular biology:**

DNA extraction , amplification;  
DNA sequencing and sequences analysis using appropriate software;  
Evolution analysis  
Primer design  
All kind of PCR strategy

### **Botanical Nomenclature**

### **Field Collection Skills:**

- Designing field sampling programmes.
- Plant collection and preservation.
- Flora analysis of the target site.

Act as plant conservation expert for Yunnan Forestry Bureau and Kunming Institute of Botany undertaking series of plant conservation projects in Yunnan and Guangxi Provinces. Responsibilities included:

- Designing field sampling programmes.
- Plant collection and preservation.
- Flora analysis of the target site.

- Cooperation with ichthyologists from Kunming Institute of Zoology in expedition to Mt. Dayaoshan, focus on habitat degradation due to human disturbances.

## **Research interests:**

**Plant taxonomy & phylogeny**

**Paleobotany**

**Conservation biology**

**Plant ecology**

**Population genetics**

**Ethnobotany**

## **Research Experience**

### **1. Feb. 2006 – May. 2006**

- Research on fossil history of *Cornalis* (dogwoods related group) in University of Florida (Supported by NC. State University)

### **2. Dec. 2005 – Feb. 2006**

- Using WAXY and LEAFY Genes to interpret the phylogeny of dogwoods (in Department of Botany, NC. State University)

### **3. Aug. 2005 - Dec. 2005**

- Field collection in SW & NW Yunnan province on oaks and *Cornus* samples.
- Supplemental molecular experiments and data analysis.
- Morphology data matrix of *Cyclobalanopsis* analysis.
- Expedition to Da-Yao-Shan National Nature Reserve, Guangxi province: habitats degradation due to human impacts and plant diversity assessments in Mt. Dayaoshan region (Cooperative research with Fish Group, Kunming Institute of Zoology, the Chinese Academy of Sciences, Supported by KFBG);

### **4. Jan. 2005 – July. 2005**

- Experimental embryology: development of mega-, micro-sporogenesis and female-, and male-gametogenesis of *Cyclobalanopsis* and a closely related taxon (*Quercus*, *Castanopsis*).
- Skill gained: grasp the experiment skills on experimental embryology.
- DNA analysis using appropriate softwares; eg. Paup, MacClade, Mega, Phylip, WinClade, Bioedit, DNASTart, Sequencer, TreeView etc.
- Skill gained: be able to manipulate DNA sequence and analyze result alignments, construct the phylogeny tree.

- Field observation and collection: Expedition to Hainan Island, Guangxi and Yunnan provinces to make collections and observe the morphology of different oak and *Cornus* species.
- Expedition to Yunling Nature Reserve of NW Yunnan on assessment on the disturbance and impact of mine industry to the nature reserve.
- Skill gained: Familiar to the local flora, vegetation and geography, flora analysis;

**5. May. 2004 – Dec. 2004**

- Using non-coding DNA sequences to explore phylogeny of *Cyclobanaopsis*.
- Skills gained: DNA extraction, purification, all kinds of PCR amplification strategy (including nested PCR, TD-PCR).
- Expedition to Jingdong National Nature Reserve of SW Yunnan: flora research (cooperative project with UBC experts Dr. Peter Wharton).

**6. Jan. 2004 – Apr. 2004**

- Cytology research on *Cycloblanopsis*
- Skills gained: Karyotype analysis.
- Field expedition to SW Yunnan tropic region, plant collection and Flora research (cooperated with experts from California Academy of Sciences)

**7. Sept. 2003 – Dec. 2003**

- Field expedition to SE China (including Fujian, Guangxi, Guangdong, Hainan, Guizhou, Sichuan, Yunnan province for 2 months) to observe the morphology of a variety of living oaks and to collect Fagaceae DNA samples and seeds, general plant specimen collection.

**8. Jan. 2003 – Aug. 2003**

- Herbarium observation of *Quercus* and *Cyclobalanopsis* specimens.
- Comparative morphology research on closely related *Cyclobalanopsis* species using statistical methods (PCA).
- Original publications and type specimens of *Quercus* and *Cyclobalanopsis* catalog.
- Learning Botanical Nomenclature.
- Assisted Ethnobotany Group of Kunming Institute of Botany to NW Yunnan to survey the habits of *Tricholoma Matsutake*.
- Skill Gained: grasped the primary knowledge and methods of Ethnobotany.

## **9. Nov. 2002- Dec. 2002**

- Visiting Scholar to Environmental Sciences Department of Kyoto University, Japan.
- Skill Gained: Familiarity with molecular biology experiments and molecular data analysis.

## **10. June. 2001– Oct. 2002**

- Field Expedition to Hengduan Mountain Region of NW Yunnan province and other parts of Southern China (including SE Yunnan, Guangxi, Guangdong, Fujian, Guizhou province) and plant specimens collecting, identification.
- Plant community diversity analysis on alpine meadows and screes of NW. Yunnan Province.
- Constructed database Alpine Screes Plants of NW Yunnan;
- Skills gained: Familiarity with major plant families and genera; Analysis of species structure of plant communities by using phytocoenological method.

## **11. July. 2000 – Dec. 2000**

- Research on host plants of butterflies (Supported by WWF in Tropic Asia Project).
- Skill gained: Collection, identification of lepidopteran host plants and development for butterfly farming techniques.
- Aided the expert from the Nature Conservancy to explore the plant community diversity in Mei-li Snow Mountain, NW Yunnan;

## **Awards and honors**

- West Scholar Fellowship (Awarded by the Chinese Academy of Sciences to the highest achievers in West China) Kunming Institute of Botany, the Chinese Academy of Sciences, 2004 and 2005.

## **Publication**

1. **Deng, M.,** Zhou, Z.K. & Coombes. A. 2005. Taxonomic notes on the genus *Cyclobalanopsis* (Fagaceae). Ann. Bot. Fennici 43: (in press)
2. **Deng, M.,** & Zhou, Z.K. Three new combinations and six new synonyms in *Cyclobalanopsis* (Fagaceae). (submitted to Novon on Dec. 2004)
3. **Deng, M. &** Zhou, Z.K. 2004. Plant Diversity of Alpine Screes of NW Yunnan. Acta. Bot. Yunnan. 26(1): 23-34.
4. Chen, M.Y., Zhou, X.H. & **Deng, M.** 2002. Butterfly farming in China [M]. Kunming: Yunnan Scientific Publications. 215pp.

## **Manuscripts in preparation:**

- The identity of genus *Cyclobalanopsis* (Fagaceae) based on megagametophyte and embryo development characters
- Phylogeny and biogeography of *Cyclobalanopsis* (Fagaceae) based on Morphological characters and molecular data
- Taxonomic revision of *Cyclobalanopsis* (Fagaceae)----nearly finished
- Endangered oaks of China-----nearly finished

## **References**

### **Dr. Steven R. Manchester**

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