

# CURRICULUM VITAE

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## Tran Quang Bao

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## PROFESSIONAL INTERESTS

Watershed Management, Forest Ecology, Remote Sensing & GIS Application in Natural Resource, Forest and Climate Change.

## EDUCATION / DEGREES

Bachelor of Forest Science (B.Sc): Forestry University of Vietnam, 1991-1996

Master of Forest Science (M.Sc): Forestry University of Vietnam, 1997-1999

Doctor of Forest Science (Ph.D): Colorado State University, USA, 2005-2008

## WORKING EXPERIENCE

- 10.2015 – Present: Vice President of Vietnam Forestry University.  
Director of Second Campus
- 11.2014 – Present: Director of Second Campus, Vietnam Forestry University
- 2013 – Present: Associate Professor of Forestry, National Council of Professor Title
- 2013 – 10.2014: Chief of Training Division, Vietnam Forestry University
- 2011 – 2012: Deputy Chief of Training Division, Vietnam Forestry University
- 2009 – 2010: Vice Director, Institute of Forest Ecology and Environment,  
Vietnam Forestry University.
- 1999 – 2008: Lecturer, Department of Environment Management,  
Vietnam Forestry University

## TEACHING EXPERIENCE

Undergraduate Courses: Watershed Management; Geospatial Application in Natural Resource Management; Technology for Environment Management.

Master Courses: GIS and Remote Sensing Application in Forestry; Spatial Analysis Application.

Ph.D Courses: GIS and Remote Sensing Application in Forest Resource Management.

## REPRESENTATIVE GRANTS

Influence of forest land allocation policy on environment and socio-economic development of Van Ban District, Lao Cai Province. Netherland Government, 21.000 USD, PI, 2003 – 2005.

Research solutions for mitigating aftermath of forest fire in U Minh and Central Highland of Vietnam. Ministry of Science and Technology, 110.000 USD, co – PI, 2004 – 2006.

Defining required forest area for Vietnam. Ministry of Agriculture and Rural Development, 50.000 USD, co – PI, 2005 – 2007.

Impact of 661 Program on forest resources and biodiversity in Northwest region. Ministry of Agriculture and Rural Development, 30.000 USD, co – PI, 2010.

Research on forest use solutions for wave prevention and flood reduction in Vietnam. Ministry of Agriculture and Rural Development, 115.000 USD, co – PI, 2008 - 2010.

Environment Impact of Rubber plantation on slope land. Ministry of Agriculture and Rural Development, 60.000 USD, co – PI, 2009 - 2010.

Research on ecological and silvicultural characteristics of *Dalbergia oliveri* Pierre to restore and develop this species in Dak Lak. Ministry of Agriculture and Rural Development, 35.000 USD, PI, 2008 - 2011.

Research on appropriated flooded regime to ensure forest fire protection and maintain development of melaleuca forest in U Minh Thuong and U Minh Ha National Park. Ministry of Science and Technology, 10.000 USD, PI, 2010 – 2011.

A Model Land Survey on Potential of Afforestation and Reforestation Project Activities under Clean Development Mechanism or Voluntary Approaches in Nghe An Province. JICA, 30.000 USD, PI, 2010.

Building environmental education materials for second school students in the buffer zone of the National Park. Ministry of Education and Training, 10.000 USD, PI, 2010 – 2011.

Research to compile the document “Application of GIS for management of forest resources and environment”. Ministry of Education and Training, 5.000 USD, PI, 2012.

Survey on natural resource and socio-economic condition for REDD (+) activities in Dien Bien Province. JICA, 80.000 USD, PI, 2011.

Review policies of forest land allocation in North Central region. JICA, 6.000 USD, PI, 2012.

Determining areas and distribution of melaleuca forests in the flooded areas of Mekong Delta to optimize the protection function and adapt to climate change. Ministry of Agriculture and Rural Development, 15.000 USD, PI, 2011 - 2012.

Identify forest areas within the watershed of two or more provinces as the basis for the implementation of the policy on payment for forest environmental services. Ministry of Agriculture and Rural Development, 35.000 USD, PI, 2013.

Geospatial application for forest fire detection and forest resources monitoring. Ministry of Agriculture and Rural Development, 210.000 USD, PI, 2014 - 2016.

## **JOURNAL PAPERS**

<b>No.</b>	<b>Names</b>	<b>Authors</b>	<b>Publication</b>	<b>Years</b>
1	Software for forest fire detection from remote sensing image.	Co-author	Journal Agri. and Rural Devel.	No. 3/ 2006

2	Effects of ecological factors on growth of Amomum grown in San Sa Ho commune, Sapa District, Laocai Province.	Author	Journal Agri. and Rural Devel.	No. 3/2004
3	Effects of environmental factors on growth of Dendrocalamus planted in Dong Luong Commune, Lang Chanh District, Thanh Hoa Province.	Author	Journal Agri. and Rural Devel.	No. 3/2004
4	Influences of forest and forest land allocation policy on environment protection and socio-economic development of Vanban District, Lao Cai Province.	Author	Journal Agri. and Rural Devel.	No. 11/2002
5	Effect of mangrove forest structure on wave attenuation in coastal Vietnam.	Author	OCEANOLOGIA	No. 3/2011
6	Defining required forest area for protection soil from erosion in Vietnam: a GIS-based application.	Co-author	VNU Journal of Science, Earth Sciences.	No. 2/2011
7	Effects of Forest Degradation on Forest's Soil Water Retention in Northern Vietnam.	Author	VNU Journal of Science, Earth Sciences.	No. 3/2012
8	The effects of watershed characteristics on storm runoff relationships in Vietnam	Co-author	Journal of Environ. Science and Water Resources.	No. 2/2013
9	Applying SPOT5 satellite imagines to establish forest resource map for forest inventory and forest change detection.	Co-author	Journal Agri. and Rural Devel.	No. 5/2011
10	Effects of water table on fire risk on Melaleuca forest in U Minh.	Author	Journal Agri. and Rural Devel.	No. 4/2011
11	Potential of Afforestation and reforestation under Clean Development Mechanism (AR-CDM) on fallow land after shifting cultivation in Tuong Duong District, Nghe An Province.	Co-author	Journal Agri. and Rural Devel.	No. 7/2011
12	Growth and incremental characteristics of post-fire regeneration Melaleuca forest in U Minh Thuong.	Co-author	Journal Agri. and Rural Devel.	No. 24/2011
13	Applied multi-temporal landsat satellite image to monitor forest cover change by shifting cultivation in Kim Boi District, Hoa Binh Province.	Co-author	Journal Agri. and Rural Devel.	No. 12/2010
14	Identifying carbon baseline for rehabilitated forest after shifting cultivation in Tuong Duong, Nghe An.	Author	Journal of Forest Sciences	No. 2/2011
15	Research on the influence of the water table level to grow of Melaleuca and vegetation biodiversity at U MinhThuong National Park.	Co-author	Journal Agri. and Rural Devel.	No. 16/2011
16	Effects of climate change on annual tree-ring and suitable ecological regions for Fokienia Hodginsii in Vietnam.	Co-author	Journal Agri. and Rural Devel.	No. 1/2013
17	The impact of the climate and the intensify of solar activity growth of Dalbergia oliver Pierre tree-ring in Dak Lak.	Author	Journal of Forest Sciences	No. 1/2013

18	Relationship between fruit productivity and growth parameters of Camellia tree species.	Co-author	Journal Agri. and Rural Devel.	No. 6/2012
19	Techniques of producing seedlings and planting of Gmelia arborea Roxb.	Co-author	Journal Agri. and Rural Devel.	No. 12/2012
20	Posibility of Melaleuca forest on soil and water improvement in flooded areas of Mekong river delta.	Author	Journal Agri. and Rural Devel.	No. 9/2012
21	Effect of humidity and light on growth of Cam lai vu seedlings (Dalbergia oliver) in nursery stage.	Author	Journal Agri. and Rural Devel.	No. 16/2010
22	Research on applying high resolution satellite images to determine distribution and carbon storage of forest.	Co-author	Journal Agri. and Rural Devel.	No. 9/2013
23	Effects of storage methods on seed germination of Cam lai vu (Dalbergia oliver)	Author	Journal of Forest Sciences	No. 3/2010
24	Research on flood prevention capability of mangrove in Tram chim national park, Dong Thap Province.	Co-author	Journal Agri. and Rural Devel.	No. 11/2011
25	Impact of Rubber plantation on soil improvement.	Author	Journal Agri. and Rural Devel.	No. 12/2011
26	Identifying carbon sequestration of forest through remote sensing in Kim Boi District, Hoa Binh Province.	Author	Journal of Forestry Science and Technology.	No. 1/2013
27	Effects of acacia and pine plantation forest on soil properties in Luot mountain, Xuan Mai.	Co-author	Journal of Economic Ecology.	No. 39/2011
28	Research on potential for development of rubber trees on slopping land in the North Central Province.	Author	Journal of Economic Ecology	No. 38/2011
29	Applying greenhouse effects for drying and preserving agricultural and non-timber forest products.	Author	Journal of Economic Ecology	No. 37/2010
30	The potential and solutions in order to raise ecological economic values of natural forest in Vietnam.	Co-author	Journal of Economic Ecology	No. 38/2011
31	CO <sub>2</sub> sequestration capacity of the natural forests in Muong La, Son La.	Co-author	Journal of Forestry Science and Technology.	No. 2/2013
32	Impact of climate change on forest fire risk in Vietnam	Co-author	Journal Agri. and Rural Devel.	No. 7/2015
33	Impacts of socio – economic conditions to the deforestation, forest degradation and proposing solutions for REDD+ implementation in Dien Bien province	Co-author	Journal Agri. and Rural Devel.	No. 15/2015
34	Application of Geospatial Technology in Implementing Payment for Forest Environmental Services: Case Study at Ho Ho Hydropower Plant, Ha Tinh Province.	Author	Journal of Forestry Science and Technology.	No. 3/2015

## **BOOKS**

Tran Quang Bao, Nguyen Van Thi, Pham Van Duan. GIS Application in Natural Resource Management, Agriculture Publishing House, Ha Noi, 2014.

Tran Quang Bao, Chu Ngoc Thuan, Nguyen Huy Hoang. GIS and Remote Sensing, Agriculture Publishing House, Ha Noi, 2013.

Vuong Van Quynh, Tran Thi Huong, Tran Quang Bao. Environmental Impact Assessment, Agriculture Publishing House, Ha Noi, 2012.

Nguyen Hai Tuan, Tran Quang Bao, Vu Tien Thinh. Applied quantitative methods in ecological forest research, Agriculture Publishing House, Ha Noi, 2011.

## **SOFTWARES**

National Forest Fire Danger Prediction. Department of Forest Protection, Co – Author, 2006.

Ecological Climate Application in Forestry. Ministry of Agriculture and Rural Development, Co-Author, 2010.

Management of Forestry Data. Vietnam Forestry Administration, Co-Author, 2013.

**December, 2015**



**Tran Quang Bao**