

CURRICULUM VITAE

A. Personal information

Family name **Pham**

Given name: **Ngoc Hai**

Date of birth: 10/29/1983

Place of birth: Thai Binh

Nationality: Vietnamese

Gender Male

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B. Education back ground

- BSc: in Faculty of Geography, Hanoi University of Science, Vietnam, 2001 – 2005
- MSc: in Faculty of Geography, Hanoi University of Science, Vietnam, 2005 – 2007
- PhD student: Sandwich PhD scholarship at Department Electronic and Informatics, Vrije University of Brussels-VUB and Faculty of Geography, Hanoi University of Science, Vietnam from 2012 – now.

C. Languages

- English (good in reading, writing, & speaking)

D. Work experiences

- Researcher - Multidisciplinary Integrated Technologies Center for Field Monitoring (FIMO), Hanoi university of engineering (UET), VNU, (2014 - present)
- Internship – Department Electronic and Informatics, Vrije University of Brussels-VUB (03/2012 - 02/2013).
- Researcher - International Centre for Advanced Research on Global change - Vietnam National University, Hanoi (08/2009 – 12/2013).
- Research Assistant – Center applied remote sensing and GIS (CARGIS), Hanoi University of Science (05/2005-07/2009).

E. Award

- The 3rd Student research award, Ministry of Education, Vietnam, 2005.

F. Scientific activities

ID	Project	Years	Remarks	Task assigned description
1.	Applied remote sensing and GIS for predict landslide and flash flood in Vinh Phuc.	2005 - 2006	DARD Vinh Phuc	<ul style="list-style-type: none"> - Landsat TM, ETM processing, classification - Field survey - Applied model in predicting landslide and flash flood - Training for Vinh Phuc's DARD staff - Report
2.	Interpretation Forest status map in from Spot 5 images for Ninh Son and Truong son enterprises.	2007	GTZ	<ul style="list-style-type: none"> - Spot 5 images processing, Interpretation image. - Field survey - Editing, forest status map layout, Report
3.	Interpretation Forest status map in from Spot 5 images for Dakwil enterprise - Daknong.	2008	GTZ	<ul style="list-style-type: none"> - Spot 5 image processing, interpretation - Field survey - Editing, forest status map layout, Report
4.	Study in applied remote sensing and GIS in access and management forest status in Da river watershed.	2006 - 2008	MARD	<ul style="list-style-type: none"> - Images processing (Landsat TM, ETM, SPOT), Interpretation image. - Report
5.	Using MODIS and meteorological data for monitoring and prediction agricultural drought in central, VietNam.	2006 - 2007	IMHEN, MONRE	<ul style="list-style-type: none"> - MODIS image processing - Building predict drought modeling - Report
6.	MapInfo training course for ADB project in Central Vietnam	2007	ADB	<ul style="list-style-type: none"> - Lecturer
7.	Study land use change and which effect on rural waste in Duy Tien – Ha Nam base on application remote sensing and geography information system.	2007 - 2009	VNU, Hanoi	<ul style="list-style-type: none"> - Landsat, SPOT images processing. - Building database - Summary, Report

8.	Building noise mapping in Da Nang Airport.	2008	Ministry of Transport	<ul style="list-style-type: none"> - Make base map - Noise data processing - Noise analysis - Noise mapping - Report
9.	Building noise mapping in Noi Bai international Airport, Ha Noi.	2009	Ministry of Transport	<ul style="list-style-type: none"> - Make base map. - Noise data processing - Noise analysis - Noise mapping - Report
10.	Building noise mapping in Tan Son Nhat international Airport, HCM city.	2009	Ministry of Transport	<ul style="list-style-type: none"> - Make base map. - Noise data processing - Noise analysis - Noise mapping - Report
11.	Application of remote sensing and Geographical Information systems to the definition of environmental indicators relating to the risk of avian flu in Vietnam	2009	CIRAD	<ul style="list-style-type: none"> - MODIS image processing - Spot image processing and classification - Paddy rice crop monitoring in Red River Delta - Field trip, report
12.	MapInfo software training course for Lang Son's Department of forestry staff	2009	DARD, Lang Son	<ul style="list-style-type: none"> - Lecturer
13.	ERDAS and ENVI training course for Center for Agricultural Research and Ecological Studies (CARES)	2009	CARES	<ul style="list-style-type: none"> - Lecturer (ENVI, ERDAS, software)
14.	GPS Training course for Ngoc Son Ngo Luong Natural resources staff.	2010	Ngoc Son Ngo Luong Natural reserve	<ul style="list-style-type: none"> - Lecturer - Field trip - Report
15.	Ecognition training course for Forest inventory planning institute.	2010	FIPI, MARD	<ul style="list-style-type: none"> - Lecturer
16.	GIS and images processing Training course for FORMIS staff.	2011	FOMIS, MARD	<ul style="list-style-type: none"> - Lecturer (ARCGIS, ERDAS, Ecognition software)
17.	Applied remote sensing and GIS for predict landslide and flash flood in Quang Nam province.	2011	DMC	<ul style="list-style-type: none"> - Building landslide database. - Applied model in predicting landslide and flash flood.
18.	Study on land use change caused by socio-economic and its impacts to climate change (case studies in the Red river delta and the North-west mountainous Region in Vietnam).	2010 - 2013	Belspro	<ul style="list-style-type: none"> - Images processing team leader (Landsat TM, ETM, SPOT) - Field trip - Report
19.	Impacts of Climate Change on Land Use Change in the Red River Delta and its Community	2010 - 2013	DANIDA	<ul style="list-style-type: none"> - Pilot Coordination. - Images processing team leader (Landsat TM,

	Livelihood Change (ClimLandLive-Delta).			ETM, SPOT, ALOS, MODIS) - Field trip - Report
20.	Spatial Analysis applied to Biomass Assessment of the Mangrove in Coastal Zone of the Red River Delta ASBIOM-Delta	2010	AUF	- Images processing. - Field trip - Report
21.	ERDAS and LPS training course for Thanh Hoa College of Nature resource and environment	2013	THNRE	- Lecturer (ERDAS, LPS software)
22.	Land cover classification for CaMau Province and Tran Van Thoi district	2014		- Image classification (Landsat MSS, TM, Landsat 8) - Land cover change detection
23.	Applied VNRedsat 1 image for research World heritage conservation in Quang Binh and Thua Thien Hue	On going	MOST	- Coordination - Image processing coordination (Landsat 8, SPOT 5, VNREDSat1) - Land cover classification and change detection
24.	Vulnerability mapping for impact of climate change on fisheries and aquaculture	2014 - 2015	UEB, VNU	- Land cover classification and change detection - Vulnerability index mapping
25.	Building spatial database for suitable development in the North western, Vietnam		2014- 2015	- Database architect frame - Data inventory, conduction - Data base editing - WEBGIS
26.	Air pollution monitoring system in Vietnam	On going	2014	- Coordinator of Development Air pollution system
27.	Forest fire information system in Vietnam		2014	- Member of Development forest fire information system

G. Training courses and Conferences

1. Certificate of Attendance of the Train-the-Lecturers Workshop on Modern Research and Investigation Methods in Geotechnical Engineering and Geo-system Exploration in the framework of the EU Asia link BRIDGE project, Hanoi, Oct, 2005.
2. Certificate of Attendance of the JICA - NET (Remote sensing and GIS course), Hanoi August, 2006.
3. Certificate of training on Second capacity building workshop of space science for Southeast Asian scientists. National central university, Chung Li, Tai wan. Oct. 30 to 7th, Nov, 2006.
4. Certificate of training on Third capacity building workshop of space science for Southeast Asian scientists. National central university, Chung Li, Tai wan. Oct. 29 to 10th, Nov. 2007.
5. International Workshop on Disaster Management, the Australian Journal of Emergency Management, Hanoi, Vietnam, August, 2009.

6. Workshop on Land Cover Land Use Change, Southeast Asia”, November, 2011, Hanoi, Vietnam
7. Workshop on Adaptation to environmental changes: desertification and climate change in south-central Vietnam, March, 2012, Brussels, Belgium.
8. International Workshop on Air Quality in Asia: Inventory, Modeling and Climate Impacts of Greenhouse Gas emissions (GHG’s) and Aerosols; Remote sensing applications and Integrated Technologies, Hanoi, June, 2014.

H. Scientific skills

- Research on Remote sensing (image processing, land cover classification, land cover change, ocean color monitoring, drought monitoring, paddy rice monitoring, air quality, forest fire monitoring), management and operation ground receiving station (MODIS, NPP).
- Applied remote sensing and GIS in forestry, land use, land use change, natural disaster management.
- Research on advanced technology, trend and application of remote sensing technology, GIS, GPS.
- Develop and apply of remote sensing technology, GIS and GPS for management of environment and natural resources, natural resource mapping for territorial planning, establish database for environment and natural resources assessment.
- Organize and carry out training program and technology transfer in the field of remote sensing, GIS and GPS.

I. Software skills

- **Microsoft software:** Word, Excel, PowerPoint, Visio.
- **Map software:** Microstation, Mapinfo, Map Publisher, Global mapper, Adobe Illustrator
- **GIS software:** Arcview, Arcgis, QGIS.
- **Remote sensing software:** Idrisi, ILWIS, SEADAS, PCI, ENVI, ERDAS, LPS, Ecognition.
- **Programming Languages:** Matlab, R, IDL.

J. Publication

1. Nguyen Ngoc Thach, Tran Van Dien, **Pham Ngoc Hai**. SEAWIFS images used for supervising algae bloom at Viet Nam Sea. ACRS, 2005.
2. Tran Van Dien, **Pham Ngoc Hai**. Using SeaWiFS satellite data for monitoring algal bloom in Vietnam water, the South China Sea. *Journal of Coastal Marine Science* 30(1):44- 48, 2006.
3. Desvaux, S., Grosbois, V., Pham, T. T. H., Fenwick, S., Tollis, S., **Pham, N. H**, Roger, F. (2011). Risk factors of highly pathogenic avian influenza H5N1 occurrence at the village and farm levels in the Red River Delta Region in Vietnam. *Transboundary and Emerging Diseases*, 58(6), 492–502. doi:10.1111/j.1865-1682.2011.01227.x
4. Pham Van Cu, Pham Thi Thanh Hien, **Pham Ngoc Hai**, Tong Thi Huyen Ai, and Nguyen Thi Thuy Hang (2012), "The conversion of agricultural land in the peri-urban areas of Hanoi, Vietnam: Patterns in space and time (under reviewing)", *Land Use Science Taylor Francis*, p. 26.
5. Ngoc Thach Nguyen, **Ngoc Hai Pham**, Xuan Canh Pham, Thi Thuy Hang Nguyen, Van Lam Nguyen, and Thi Thanh Thuy Duong, 'Application of Multimedia Methodology for Investigation of Karst Water in Highland Regions of Ha Giang Province, Vietnam', *Environmental Earth Sciences*, 70 (2013), 531-42.
6. **Pham Ngoc Hai**, Pham Van Cu, Phan Van Trong, "Using satellite imagery and GIS for mapping forest fire risk zones and in Hotspots Analysis in the Northwestern region, Vietnam", *International Workshop on Air Quality in Asia 2014 (IWAQA 2014)*, Hanoi, June, 2014.
7. **Pham Ngoc Hai**, Pham Van Cu, Phan Văn Trọng, Bùi Quang Hưng, "USING TEMPORAL MODIS DATA FOR PADDY RICE EXTRACTING IN THE RED RIVER DELTA, VIETNAM", *Vietnam GIS conference*, 11/ 2014.

8. **Pham Ngoc Hai**, Pham Van Cu, Dinh Thi Dieu, Huynh Thi Anh Van, Tong Thi Huyen Ai, Pham Van Manh, OBJECT-BASED IMAGE ANALYSIS FOR MAPPING LAND-COVER IN HUE CITY FOR WORLD CULTURE HERITAGE CONSERVATION, Workshop on Remote sensing application, Vietnam, 2014, in press.
9. Nguyen Thi Nhat Thanh, Bui Quang Hung, Pham Van Ha, Luu Viet Hung, Man Duc Chuc, Pham Huu Bang, **Pham Ngoc Hai**, Le Thanh Ha, Nguyen Thanh Thuy, "Hourly Particulate Matter Concentration Mapping from MODIS Satellite Data: A Vietnamese Case Study", Environmental Research Letters, as a Special Issue Article: "Focus on Land Cover, Land Use Changes and Air Pollution in Asia", (2015, in review).

Hanoi, May-2015

Pham Ngoc Hai