

## SCIENTIFIC CURRICULUM VITAE

### 1. Personal details

Full name	Nguyen Duc Thuan	Birth date	March 26, 1987
Academic title	Master	Sex	Male
Administrative position	Lecturer	ID Number	
Department	Department Of Land Information System, Faculty of Natural Resources and Environment (FONRE)		
Institution	Vietnam National University of Agriculture (VNUA)		
Address	Trau Quy, Gia Lam	City/prov	Hanoi
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### 2. Qualifications (*Kê khai theo thứ tự bằng cấp cao nhất đến bằng đại học*)

No.	Years	Academic Institution	Major/specialty	Academic degree
1	2012	Hanoi University of Mining and Geology	Master of Engineering	Master
2	2010	Hanoi University of Mining and Geology	Surveying Engineering	Engineering

### 3. Professional experience (*Kê khai theo thứ tự từ hiện tại lùi về quá khứ*)

No.	Years	Institution	Address	Position
1	2011 to present	Vietnam National University of Agriculture (VNUA)	Trau Quy, Gia Lam, Ha Noi	Lecturer

### 4. Language (Rating: A-Poor/deficient; B - Fair; C – Sufficient; D – Fluent)

Language	Reading	Writing	Speaking	Certificate/degree
English	B	B	B	

### 5. Expertise and research interests

#### 5.1 Main research orientation (*liệt kê các định hướng nghiên cứu và sở thích NC chính*)

- Application of Remote Sensing (RS) and GIS in the establishment of current land use status maps, maps of land use in coastal areas.

- Application of RS and GIS in the assessment of land use changes, urbanization processes, and coastal shoreline fluctuations. Application of RS and GIS in the assessment of impacts of climate change on land use.

- Application of GIS in spatial analysis, establishment of Digital Elevation Model (DEM), Digital Surface **Model (DSM)**, establishment of specialized maps for land use planning.

5.2 List of research projects

No.	Project name	Funding agency & amount	Project duration	Position in the project (manager, coordinator, secretary, researcher)
1	Building an integrated planning model of Thanh Tra pomelo and lotus growing area in Thua Thien Hue province.	Vietnam National University of Agriculture	2020	Researcher
2	Estimated biomass of the forest canopy in Ba Vi National park using remote sensing technology	Vietnam - Belgium	2018-2019	Manager
3	Create a website providing online land information based on open source software in Gia Lam district, Hanoi	Vietnam National University of Agriculture	2018	Secretary
4	Research on the application of modeling tools and GIS in flood forecasting under climate change conditions and calculating the value of damage to rice crops	Vietnam National University of Agriculture	2018	Secretary
5	Research and build an online land information system to serve the land management of organizations in Bac Giang province.	Bac Giang province	2017-2019	Researcher
6	Assessment of the impact of drought hazard on agricultural production in Bac Giang province using remote sensing.	Vietnam - Belgium	2017-2018	Manager
7	Developing a method of integrated GIS and modeling the assessment of damage caused by floods for some major crops in Duc Tho district, Ha Tinh province under the influence of climate change.	Vietnam National University of Agriculture	2017-2018	Researcher
8	Application of Remote Sensing for forecasting spring rice yield in 2016 in VuBan district, NamDinh Province.	Vietnam - Belgium	2016-2017	Manager
9	Applying geographic information system to build a database for the management of land use planning at district level, case study of Gia Lam district	Vietnam National University of Agriculture	2016-2017	Secretary
10	Evaluation of land acquisition for construction of resettlement area Hong Tien commune in Pho Yen town, Thai Nguyen province on people's livelihood.	Vietnam National University of Agriculture	2016-2017	Secretary
11	Research and apply technology in assessing land potential for sustainable use of land resources.	Ministry of Natural Resources and Environment	2015-2017	Researcher

12	Application of remote sensing technology and geographic information system to study the change of surface temperature in Hanoi city from 2005 to 2015	Vietnam National University of Agriculture	2015-2016	Manager
13	Research on integrating high-resolution satellite images and GPS technology to establish an original cadastral map of 1:2000 scale in Gia Lam area, Hanoi city to assess the urbanization process in suburban areas of Hanoi.	Vietnam National University of Agriculture	2011 – 2012	Researcher

5.3 Publications and accomplishments (*Có thể bổ sung dòng nếu cần*)

No.	Authors	Year	Title of papers/book	Name of publishers/No. Vol, page	ISSN/ ISBN	IF	Notes
1	Article (s) in ISI-covered journal						
1.1							
2	Article in other international Journal						
2.1	Le Thi Giang, Nguyen Duc Thua, Tran Quoc Vinh	2016	Research and application of Remote sensing and GIS technologies in determining and forecasting land use changes by Markov chain in Y Yen district – Nam Dinh Province.	Real Estate Management and Valuation, Volume 24, issue 3: 27-39, Poland	ISBN :		
3	National/International Conference(s)						
3.1	Tran Quoc Vinh, Phan Thi Quyen, Nguyen Duc Thuan	2019	Application of remote sensing and GIS to determine forest cover change in Quy Hop district, Nghe An province	National GIS application workshop in 2019, Tay Nguyen University	ISBN : 978-604-60-3104-8		
3.2	Tran Quoc Vinh, Nguyen Duc Thuan	2018	GIS application to create a database of land prices for financial management of land	National GIS application workshop in 2018, Ho Chi Minh City Institute of Resource Geography	ISBN :		

3.3	Tran Quoc Vinh, Nguyen Thi Cam Van, Le Thi Giang, Nguyen Duc Thuan	2016	Application of GIS to establish land price databases for financial management of land in Hoa Thanh commune, Yen Thanh district, Nge An province.	National GIS application workshop in 2016, Hue University	ISBN : 978-604-912-659-8		
3.4	Nguyen Duc Thuan, Tran Quoc Vinh, Le Thi Giang	2015	Research and application of remote sensing and GIS technologies in determining and forecast the land cover changes by Markov chain in Y Yen District – Nam Dinh Province	In proceeding: Impacts of land use changes on the soil and water quality rural environment in Vietnam – Japan, pp 153-165	ISBN : 978-604-924-200-7		
3.5	Nguyen Duc Thuan, Tran Quoc Vinh	2015	Research and apply InSAR techniques in building high-level models.	National GIS application workshop in 2015, VNU University of Science	ISBN :		
3.6	Nguyen Duc Thuan, Nguyen Thi Van Anh, Tran Quoc Vinh	2015	Application of Landsat 8 TIRS in determining urban surface temperature in Hanoi city.	National GIS application workshop in 2015, VNU University of Science	ISBN :		
3.7	Nguyen Duc Thuan, Le Thi Giang	2014	Application of LiDAR technology in construction of DEM and DSM	National GIS application workshop in 2014, Can Tho University	ISBN :		
3.7	Pham Vong Thanh, Nguyen Thi Thu Hien, Nguyen Duc Thuan	2011	Research on using satellite images to show the current status of land use at commune level.	In proceedings of the scientific conference - Integrated management of natural resources, environmental protection for			

				sustainable development. Vietnam National University of Agriculture.			
4	Article(s) in national scientific journal						
4.1	Nguyen Duc Thuan, Tran Quoc Vinh, Pham Quy Giang	2020	The study on the extraction of construction soil and vacant soil in Dien Bien city, Dien Bien province from remote sensing	Vietnam soil science, vol 60, page 75-61	ISSN: 2525-2216		
4.2	Nguyen Duc Thuan, Tran Quoc Vinh	2020	Fast estimating the biomass of the forest canopy in Ba Vi National Park using remote sensing technology	Vietnam soil science, vol 59, page 77-82	ISSN: 2525-2216		
4.3	Nguyen Duc Thuan, Pham Quy Giang	2018	Assessment of the Occurrence of Drought in Luc Ngan District, Bac Giang Province Using Remote Sensing Technology	Vietnam Journal of Agricultural Sciences, vol 9, page 820-829	ISSN: 1859-0004		
4.4	Tran Quoc Vinh, Nguyen Duc Thuan	2017	Application of vegetation index (NDVI) in determining changes in area of paddy rice cultivated land in Me Linh district, Hanoi	Vietnam soil science, vol 52, page 93-99	ISSN: 2525-2216		
4.5	Nguyen Duc Thuan, Pham Van Van	2016	Application of remote sensing and gis on studing the surface heat changing (temperature) of 12 center districts in Hanoi period from 2005 to 2015	Vietnam Journal of Agricultural Sciences, vol 8, page 1219-1230	ISSN: 1859-0004		
4.6	Nguyen Duc Thuan	2016	NDVI index application to determine the area of rice in Vu Ban district, Nam Dinh province in 2016	Vietnam soil science, vol 48, page 76-81	ISSN: 2525-2216		
4.7	Pham Van Van, Nguyen Duc Thuan, Nguyen Ba Lam	2016	Applying geographic information system (GIS) to establish agricultural soil quality database in Ha Hoa district, Phu Tho province	Vietnam soil science, vol 48, page 55-62	ISSN: 2525-2216		

4.8	Phan Thi Thanh Huyen, Nguyen Duc Thuan	2014	Applying SPOT-5 satellite image document to display the current land use map of Iapior commune - Chu Prong district - Gia Lai province.	TNU Journal of Science and Technology, Thai Nguyen University, vol 6, page 105-109	ISSN: 1859-2171		
5	Text book, lecture notes (published)						
5.1	Tran Quoc Vinh, Pham Quy Giang, Nguyen Duc Thuan	2016	Applied informatics in mapping	Agricultural institute public publishing house			
6	Others (Monographs, patents, scientific awards,..)						
6.1							

Vietnam National University of Agriculture      Hanoi,.....  
 (Full name and signature)

**Nguyen Duc Thuan**