SCIENTIFIC CURRICULUM VITAE

1. Personal details

Full name	CAO TRƯỜNG SON	Birth date	30/04/1986
Academic title	Doctor	Sex	Male
Administrative position	Main lecturer	ID Number	
Department	Deparment of Environmental Management, 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

No.	Years	Academic Institution	Major/specialty	Academic degree
1	2019	University of Sciences – Viet Nam Nation University	Environmental Science	Doctor
2	2012	University of Sciences – Viet Nam Nation University	Environmental Science	MSc
3	2008	Hanoi University of Agriculture, Vietnam	Environmet	BA

3. Professional experience

No.	Years	Institution	Address	Position
1	2009 - 2013	Faculty of Natural Resouces and Environment, Vnua	Trau Quy, Gia Lam, Ha Noi	Lecturer
2	2013 - 2021	Faculty of Environment, Vnua	Trau Quy, Gia Lam, Ha Noi	Lecturer
3	2021 - now	Faculty of Natural Resouces and Environment, Vnua	Trau Quy, Gia Lam, Ha Noi	Main Lecturer

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

Language	Reading	Writing	Speaking	Certificate/degree
English	C	C	C	B2
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5. Expertise and research interests

5.1 Main research orientation

- Research on water quality index and water environmental risk assessment;
- Application of environmental audit in environmental management;
- Research on payment for forest environmental services (PFES);
- Circular economy model for waste management.

5.2 List of research projects

No.	Project name	Funding agency & amount	Project duration	Position in the project (manager, coordinator, secretary, researcher)
1	Scheme on collection and treatment of waste, packaging of plant protection drugs in agricultural production	Bac Giang provice (USD 8,000)	6 – 12/2021	Manager
2	Proposing a circular economic model for waste management in industrial parks and industrial clusters in Bac Ninh province	Bac Ninh Province (USD 72,000)	7 – 12/2021	Manager
3	Planning of Thanh Hoa province in the period of 2021 - 2030, with a vision to 2030, Project in Thanh Hóa province of Vietnam in 2020 – 2021. Chief Consultant of 3 components including: + Plans for environmental protection, nature conservation and biodiversity; + Plans for protection, exploitation and use of natural resources; + Plans for disaster prevention and response to climate change	Thanh Hoa Province (USD 93,400)	1/2020 – 12/2021	Coordinator
4	Implementation of the national target program on building new rural areas in	Quang Ninh Province (USD 36,000)	2021	Chief Consultant

	Quang Ninh province in the period of 2021 – 2025			
5	Building a model of solid waste collection and treatment in rural areas in Ha Nam province	Ha Nam province (USD 36,000)	2019 – 2021	Secretary
6	Apply waste audit techniques and propose solutions to reduce pig waste	MARD of Vietnam (USD 64,000)	2019 – 2021	Manager
7	Investigate the current situation of waste generation at health facilities and propose management solutions in Bac Ninh province	Bac Ninh Province (USD 640,000)	2020	Chief Consultant
8	Prepare a report on environmental protection in 2019 of Bac Giang province	Bac Giang province (USD 8,000)	2019	Chief Consultant
9	Investigating and evaluating domestic waste collection, transportation and treatment activities and proposing solutions to improve the efficiency in the management of Bac Giang province	Bac Giang province (USD 14,000)	2019	Chief Consultant
10	Investigation, evalution of the current status of environmental pollution by using fertilizers, plant protection drugs in planting fruit plant in three districts of Luc Ngan, Luc Nam and Yen The in Bac Giang province	Bac Giang province (USD 22,000)	2018	Chief Consultant
11	Evaluating the environmental impact of solid waste incineration of Khe Giang solid waste treatment plant, Thuong Yen Cong commune on agricultural production of surrounding households	Uong Bi City (USD 36,000)	2018	Chief Consultant
12	Developing a project to protect the environment in	Bac Giang province (USD 14,000)	2018	Chief Consultant

	Cam Son lake in Bac Giang province			
13	Assessment of impacts of payment of forest environmental services on environmental protection awareness and livelihood of people living on forest	Vnua (USD 1,000)	2016	Manager
14	Surveying and building mechanism to support small and medium enterprises to implement environmental audit and ecological management for controlling environmental risks, saving natural resources and reducing production costs	MONRE of Vietnam (USD 80,000)	2014 – 2015	Resercher
15	"REDD^{+}:The forest grab of all times"	DANIDA (USD 80,000)	2014 – 2017	PhD Student
16	Protecting Environment for "Đảo Cò" in Chi Lang Nam area, Thanh Mien district of Haiduong province	Hai Duong province (USD 3,000)	2014	Manager
17	Study on giving some cleaner production solutions for pig-farming: A case study in Gialam district of Hanoi city	Vnua (USD 1,000)	2013	Manager
18	Compiling guider doccument for generalizing knowledge and educating skills to natural disater risks	Ministry of Education and Training (USD 16,000)	2013	Secretary
19	Surveying on biodiversity state and building an action plan for biodiversity of Haiduong province in period from 2011 to 2015, orienting over to 2020	Hai Duong province (USD 650,000)	2011 – 2012	Researcher
20	Evaluating pollution levels of surface and groundwater in different pig-farming systems in Hungyen province, Vietnam	Vietnam – Bejum Center (Euro 25,000)	2009 – 2010	Secretary

21	Surveying on waterwaste sources and characteristics of sullage pit system in Hanoi University of Agriculture to base for choosing treatment solutions	Vnua (USD 1,000)	2010	Researcher

5.3 Publications and accomplishments

No	Authors	Year	Title of papers/book	Name of publishers/ Journal	ISSN/ ISBN	IF	Notes
1	**Article (s) in ISI-covered journal**						
1.1	First Author	2021	Impacts of effluent from different livestock farm types (pig, cow, and poultry) on surrounding water quality: a comprehensive assessment using individual parameter evaluation method and water quality indices	Journal of Environmental Science and Pollution research		3.3	Q2 H-index: 113
1.2	Corresponding author	2021	Recycling Wastewater in Intensive Swine Farms: Selected Case Studies in Vietnam	*J. Fac. Agr., Kyushu Univ.,* Vol.66 (1), (2021), pp 115 – 121		0.5	Q4 H-Index: 17
1.3	Co-Author	2020	Water-use Efficiency of Alternative Pig Farming Systems in Vietnam	Journal of Resources, Conservation & Recycling, Vol.161 (2020),		7.21	Q1 H-Index: 130
1.4	Co-Author	2020	Manure management and pollution levels of contract and non-contract livestock farming in Vietnam	Science of the Total Environment, Volume 710 (2020), 25/3/2020, 136 – 200		5.54	Q1 H-Index: 244
1.5	First Author	2020	Assessment of Cau river water quality assessment using a combination of water quality and pollution indices	Journal of Water quality Supply: Research and Technology – Aqua, January 20th 2020		1.05	Q3 H-Index: 50

1.6	Co-Author	2013	Evaluation of Water Pollution Caused by different Pig-Farming Systems in Hungyen Province of Vietnam	Journal of the Faculty of Agriculture, Kyushu University, Japan, 58 (1), 159-165		0.5	Q3
1.7	Co-Author	2010	Assessment of Surface and Groundwater Quality in Pig-raising Villages of Haiduong Province in Vietnam	Journal of the Faculty of Agriculture, Kyushu University, Japan, 55 (1), 123-130		0.5	Q3
2	**Article in other international Journal**						
2.1	Co - Author	2017	Heavy metal accumulation in the agriculture soil around iron-recycling Chau Khe village in Tu Son town, Bac Ninh province, Vietnam	International Journal of Agriculture and Environmental Research (IJAER). Volume 3, Issue 2, March – April/2017, pp 2698 - 2711			
2.2	Co - Author	2015	Comparison of two pig-farming systems in impact on the quality of surface and groundwater in Hanoi, Vietnam	Intenational Journal of Agricultural Inovations and Research (IJAIR) Volume 5, Issue 1, pp 11-19			
3	**National/International Conference(s)**						
3.1	First Author	2017	The role of payment for forest environmental services in community-based forest management: A case study in Ban Duong, Hoang Tri commune, Ba Be district, Bac Kan province.	National Conference "Human ecology and sustainable development ". Hanoi January 13, 2017			
3.2	Co – Author	2016	Current situation of pig manure and effluent management in Vietnam	International Symposium on Southeast Asian Water Environment			

				(SEAWE2016) Hanoi, Vietnam, November 28-30, 2016			
3.3	Co – Author	2014	Assessing Social Exposure of Coastal Community to Weather Extreme and Climate Events: A Case Study in Giao Lac Commune, Giao Thuy District, Nam Dinh Province	Workshop on "Effective land, water use in agriculture and protection of rural environment in Vietnam and Japan"			
3.4	Co-Author		Biodiversity Status in Chi Linh Town, Hai Duong Province				
3.5	Co-Author		Environmental Status of Van Lam District, Hung Yen province, Afectted By Change of Land-use Structure				
3.6	Co-Author	209	Effects of urea concentration and application method on urea hydrolysis and nitrification in flooded soil	workshop on "Land, water and Nutrient in Agricultural System of Viet Nam"			
3.7	Co-Author	2008	Seasonal change of soil nitrogen components in paddy fields, Vietnam	JSPS International Seminar 2008 "Hybrid Rice and Agro Ecosystem"			
4	**Article(s) in national scientific journal**						
4.1	Corresponding author	2020	Assessment of An Duong lake water quality in Hai Duong province using a water quality index and water pollution indecies	Journal of TNU of Science and Technology, No 225 (09), pp 39 – 46			
4.2	First Author	2020	Environmental impact auditing for Khe Giang solid waste treatment factory in Uong Bi city, Quang Ninh province	Journal of TNU of Science and Technology, No 225 (06), pp 325 - 333.			
4.3	Co-Author	2020	Assessment of the situation of dometic waste management in Bac Giang province	Journal of Agriculture and Rural Development in Vietnam,			

				No 6/2020, pp 128 – 136			
4.4	Corresponding Author	2019	Soil and water quality in fruit cultivation area of Bacgiang province	Journal of Agriculture and Rural Developmet in Vietnam, No 13/2019, pp 136 – 144.			
4.5	First Author	2019	Water quality assessment of some rivers in Gia Lam district by water quality index (WQI)	Journal of TNU of Science and Technology, No 7/2019, pp 133 – 140.			
4.6	First Author	2019	General Overview about environmental audit: Theory and Fractice	Journal of TNU of Science and Technology, No 209 (16), pp 157 – 164.			
4.7	First Author	2018	Waste audit application for beef cattle production at household level in Lechi commune, Gialam district, Hanoi	Journal of Agriculture and Rural Developmen t in Vietnam, No 12/2018, pp 5 – 14.			
4.8	First Author	2018	Local people's assessment of equity and transparency in payment for frost environmentat services (PFES) programs in Ba Be district, Bac Kan province	Journal of Agriculture and Rural Developmet in Vietnam, No 12/2018, pp 138 - 147.			
4.9	Co-Author	2018	Livelihood activities development of forest-deprndent people in upland areas of Backan province, Vietnam	Journal of Agriculture and Rural Developmet in Vietnam, No 12/2018, pp 148 - 157			
4.10	Co-Author	2018	Assessment of nitrogen flow on pig-farming system in Gialam, Hanoi	Journal of Agriculture and Rural Developmet in Vietnam, No 12/2018, pp 15-21.			
4.11	Co-Author	2018	Conservation agricultural approaches for sustainable	Journal of Agriculture			

			agricuture and vegertable growers perception in Gia Lam, Ha Noi	and Rural Developmen t in Vietnam, No 12/2018, pp 158 - 168.			
4.12	Co-Author	2018	Environmental pollution and potential waste management in livestock production	Journal of Agriculture and Rural Developmet in Vietnam, No 12/2018, pp 22 – 31			
4.13	Co-Author	2018	Livelihood capital and poverty status of forest dependent households in upland area: a casestudy in BacKan province, Vietnam	Vietnam Journal of Agricultural Science (VJAS), No 1/2018, pp 85 – 96.			
4.14	First-Author	2017	Impact assessment of Direct Payment for forest environmental services in Ba Be district, Bac Kan province on forest protection activities and local people's attitude	Vietnam Journal of Agricultural Science, No 7/2017, pp 1033 **– 1041**			
4.15	First-Author	2017	Studying on the relationship between forest management decentralization and payments for forest environmental services in Ba Be district of Bac Kan province	Journal of Soil science, No 51/2017, pp 126 – 132			
4.16	First - Author	2017	Experience in evaluating the payment for environmental services in the world - Lessons learned for Vietnam	Journal of Natural resource and Environment in Vietnam, No 13 (7/2017), pp 11 – 13.			
4.17	Co - Author	2017	Assessment of environmental services of different agro-forestry systems of northern provinces, Vietnam	Journal of Agriculture and Rural Developmen t in Vietnam, No 12 (6/2107), pp 87 – 95.			
4.18	Co-Author	2017	Anaylysing factors affecting food waste at household level: A case study in Trau Quy town, Gia Lam district, Ha Noi	Journal of Agriculture and Rural Developmen t in Vietnam,			

				No 3 + 4/2017, pp 30-39.			
4.19	First Author	2016	Assessment of biodiversity potential and forest environmental services for environmental services payment in Babe district, Backan province	Vietnam Journal of Agriculture science, No 12/2016, pp 1945-1955.			
4.20	First Author	2016	An overview theory about payments for environmental services	Journal of Agriculture and Rural Developmet in Vietnam.			
4.21	First Author	2016	Effect of cleaner production solutions applying in some cassava starch production factories in Nghe An province	Journal of Environment in Vietnam, No 10/2016, pp 24-25.			
4.22	First Author	2016	Analyzing vuluntarry of payment for forest environmental service in Ba Be, Bac Kan	Journal of Agriculture and Rural Developmen t in Vietnam, No 17/2016, pp 110-117.			
4.23	Co - Author	2016	Building database for managing agricultural land quality in Lap Thach district of Vinh Phuc province	Journal of Agriculture and Rural Development in Vietnam, No 15/2016, pp 11-18.			
4.24	Co-Author	2015	Evaluation on surface-water quality trend of Ca river basin in Nghean province from 2012 to 2014	Journal of Agriculture and Rural Development No 20/2015.			
4.25	First Author	2015	Payment for Environmental Services (PES) – A new tool in natural resource and environmental management	Journal of Natural resource and Environment No 21 (227) November/2 015, pp 24-26.			
4.26	Corresponding Author	2015	Environmental Protection Solutions for Pig production Process in Pig-Farming in Gia Lam District, Hanoi	Journal of Science and Deverlopment Hanoi Universityof Agricuture,			

				Vietnam, No3/2015, pp 427-436			
4.27	Co-Author	2014	Studying on Application Posibility of Cleaner Production Solutions in Thanhhoa Beer Company	Journal of Safety, Health and Labour Environment, No 4,5&6-2014, pp 16 – 26.			
4.28	Co-Author	2014	Supported mechanism for small and medium enterprises to implement environment audit of some nations on the world and learning lessons for Vietnam	Environment Journal, No 11/2014, pp 55 – 56, 60.			
4.29	Co-Author	2014	Biodiversity in Hai Dương province: Current status and challeges	Journal of Science and Deverlopment, Hanoi Univ of Agricuture, Vietnam. Vol 12 No 4/2014 paper 574-585			
4.30	First Author	2014	Some nitrogen states in water environment on some pig-farms in Hanoi city	Journal of Safety, Health and Labour Environment, No 1,2&3-2014, pp 40 – 46.			
4.31	First Author	2014	Waste treatment status assessment in pig-farming system in Vangiang district, Hungyen province	Journal of Soil science in Vietnam, No 43 – 2014, pp 58 – 64.			
4.32	First Author	2011	Accumulation of heavy metal in the agricultural soils which are affected by metal recycling handicraft village at Chaukhe, Tuson district, Bacninh province.	Journal of soil Science in Vietnam, No 37 – 2011, pp 76 – 79.			
4.33	First Author	2011	Study on Levels of Surface – Water Pollution in Difference Pig-farm systems in Hungyen Province	Journal of Science and Deverlopment, Hanoi University			

				ofAgricuture, Vietnam, Vol 9 No 3-2011, pp 393 – 401			
4.34	Fisrt Author	2010	Assessment of surface water quality in Laivu Commune, Kimthanh district, Haiduong province	Journal of Science and Deverlopment, Hanoi University ofAgricuture, Vietnam, Vol 8 No 2 – 2010, pp 296 – 303			
4.35	Co-Author	2008	Influence of pig breeding in household to surface water	Journal of Agriculture and Rural Development, No 10/2008, pp 55 – 60.			
5	**Text book, lecture notes (published)**						
5.1	**Cao Trường Sơn**	2021	Text book: Environmental Audit	Vietnam National University of Agricultural Publishing House			
5.2	**Cao Trường Sơn,** Đinh Thị Hải Vân	2020	Lecture notes: Manual: practice of Environmental Management	Vietnam National University			
5.3	Nguyễn Thị Hương Giang **Cao Trường Sơn** Nguyễn Thanh Lâm	2020	Lecture notes: Administrative management of environment	Vietnam National University			
5.4	Ho Thi Lam Tra, Luong Đuc Anh, **Cao Truong Son**	2012	Textbook: Environmental Management	Hanoi University of Agricultural Publishing House			
6	**Others (Monographs, patents, scientific awards,..)**						
6.1	T.D.Vien, **C.T.Son,** N.T.T.Dung, N.T.Lam	2016	Redefining diversity and dynamics of natural resource management in Asian - Chapter 5: *"A voluntary model of payments environmetal services: Lessons from Ba Be district, Bac Kan province of Vietnam*	**Elsevier Publishing**	97801 28054 536		

6.2	Nguyen Thanh Lam, **Cao Truong Son**, Nguyen Thi Bich Ha, Nguyen Thi Huong Giang, Ly Thi Thu Ha, Nguyen Thi Hong Ngoc	2014	Doccument for knowledge generalizing and skills training about Natural disaster management	Vietnam Ministry of Education and Training			
6.3	Nguyen Thanh Lam, Jan Japenga, **Cao Truong Son,** Nguyen Thi Hong Ngoc, Nguyen Thi Bich Ha and Nguyen Thi Huong Giang	2012	Renewable energy in Vietnam. Chapter 2 of Biofuel sector rewier: the case of Vietnam	Hanoi Agricultural Publishing House			

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CAO TRƯỜNG SƠN

(Full name and signature)