CURRICULUM VITAE

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PERSONAL INFORMATION

Full name: NGUYEN THI MINH

Nationality: Vietnam

Sex: Female Date of Birth: Feb 13, 1971

Marital Status: Married Place of Birth: Hanoi, Vietnam

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WORKING ORGANIZATION

Name of organization:

Department of Microbiology
Faculty of Resource and Environment
Center for Agricultural Innovation (CAI)
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PROFILE

- A Practitioner of development of the sustainable organic Agriculture.

- Twenty three years experiences in teaching and researching in Environmental and soil Microbiology field and treatment of environmental pollution by Micro- and Bio-technology, soil and plant nutrient, soil science.

EDUCATION

1. Main background:

Degree or diploma held or being completed	Year of attendance	Name and place of Institution
B.Sc degree in Biology (Microbiology field)	1990 -1995	Hanoi National University, Vietnam
M. Sc degree in Agriculture (Soil Microbiology field)	2001-2003	Yamaguchi University, Japan
PhD degree in Agricultural science (Environmental Microbiology field)	2006-2010	Tottori University, Japan
Researcher post-doc (Applied and environmental Microbiology field)	2012/12-2014/5	Yamaguchi University, Japan

2. Other training attendances:

- Training course on "*Applied microbiology*" held by Hanoi National University, 1999.

- Training course on "*Analysis method of microbiology*" held by Ministry of Agricultural and Rural Development, 2006.

- Training course on "Promotion of China-ASEAN Marine Eco-protection Technology" held by Guangxi University, China, October, 2014.

PROFESSIONAL WORK

Time	Employer	Position
6/ 1997 – now	Vietnam National University of Agriculture (VNUA)	Lecturer
3/2016 – now	Vietnam National University of Agriculture (VNUA)	Vice director of Center for Agricultural Innovation

PROFESSIONAL SKILLS

1. Field Research:

- Treatment of soil and water polluted by Micro- and Bio-technology (bioremediation).

- Composting by using soil microorganisms.

- Arbuscular Mycorrhizae, Ectomycorrhizae, Algae, Endophytic microbes and their applying in Agriculture and environment protection.

- Rhizobium diversity and multiple occupancy and applying in Agricultural production

- Nutrient cycle and metabolisms by microbes in soil.

- Biomaterial for revegetation and reforestation to prevent soil erosion and protect slope, soil reclamation, recover salinity, acid and dry soil, promote plant growth (especially in soil with poor nutrient).

- Thermo-tolerant microbes and Bio-products for fermentation of agricultural wastes to produce Bio-ethanol and organic fertilizer; for treatment livestock wastes into multifunctional microorganic nutrient liquid, improve soil fertility and apply for planting crop.

- The methods and techniques to cope with climate change in agricultural production (by biotechnology).

2. Computer:

- Microsoft office

- Statistics Software

3. Languages:

- Vietnamese: Native

- English: Fluent

- Japanese: Basic

- Russia: Basic

RESEARCH-INVOLVED EXPERIENCES AND ACTIVITIES

1. Influence of Burkhoderia Vienamiensis strain (TVV75) and controlled Realease Urea CRU_2 on Spring and Autumn rice on Degraded soil, Saline soil, Acid sulfate and Alluvial soil. The research was funded by Canadian Agrium Corporation (1997-1998).

2. Research and production of bacterial fertilizer based on a combination of microorganism that was able to decompose the Agricultural waste (1996-1999).

3. Participant of the National Project KHCN 02-06: Preparation of special bacterial fertilizer used to inoculate for beans (1997-1999).

4. Research on Mycorrhizal fungi (AM and ECT) in revegetation and reforestation of disturbed land, recover of bare land and hill (2001-2003).

5. Research on Nitrogen fixation Microbiology, *Rhizobium* and diversity in some Vietnam soil types, such as: Alkaline soil, Acid and Alluvial soil (2001-2006).

6. Production of microbial fertilizer from municipal and agricultural waste to apply for clean vegetable (2003-2006).

7. Construction of the produced process microbial product to treat the remnant of plant on the field into the organic fertilizer on the spot to apply for planting crop (2004-2005).

8. Treatment of wastewater from daily life by Microbiological technology (2005-2006).

9. Research on Mycorrhizae and their applied in Agricultural production (2004-2006).

10. Research on multiple occupancy of Rhizobia and their diversity on soybean cultivation (2006-2010).

11. Research on treatment of heavy metal polluted soil by Biological method using microorganism and phyto-remediation (2005-2006).

12. Research on Bioethanol and micro-organic fertilizer production from Agricultural waste by Microbes fermentation and micro-biotechnology (2010-now).

13. Research on using bio-materials for revegetation and reforestation on bare land and slope, make land scapes, biodiversity preservation (2010-now).

14. Research on micro-nutrient product with multi-function from live stock waste liquid and endophytic microorganisms (2014-now).

15. Research on decreasing the gas greenhouse emission in rice cultivation by biotechnology (2015-now).

16. Research on treatment of rice straw and agricultural wastes into organic substrate and fertilizer, server for safety agricultural production (2015-now).

THE PROJECTS INVOLVED

Leading projects	Time	Code, Program	Status
Isolation and collection of *Arbuscular Mycorrhizal* fungi for crop inoculation	2004	T2004-03-56	Finished
Effect of organic fertilizers on establishment of *Vesicular Arbuscular* Mycorrhizae	2005	T2005-03-42	Finished
Effect of Arbuscular Mycorhizae on growth of legumes plants on Red river alluvial soil	2006	T2006-03-23	Finished
Research on micro-nutrient product with multi-function from live stock waste liquid and endophytic microorganisms	2015-2017	T2015-04-05 TĐ	Finished
Complete production technique of liquid production of antimicrobiology, useful, quality evaluation of the liquid belongs to: "Research on application of Nano technology to production of liquid microbiological preparations from microorganisms, nanochitosan and medical plants for control of nematode diseases in pepper in the Central Highlands"	2017	Branch of National project ĐTĐL. CN-07/16	Finished

Development of biomaterial production technology of Japan for covered revegetation to make landscaping and protect slope in Vietnam	2017 - 2019	Foreign Talent STI Grants under Sub-component 1.a "Fostering Innovation through Research, Science and Technology" Project (Credit No. 5257-VN)	Finished
Research on creating new microbial products for treatment of crop residues and livestock wastes under the ministerial-level project: Researching the use of organic materials and organic fertilizers to improve the efficiency of production one time	2017-2020	MRDA	Finished
Assesment of the current state of environment and application of biotechnology in the treatment of odor and solid waste in chicken farms in Hung Yen province	2018-2019	Province level	Finished
Piloting the technology of producing mineral organic fertilizer for target crops from livestock waste and biogas byproducts in Vietnam	2018-2019	The ADB project belongs to the Low Carbon Program	Finished
Involved Projects	**Time**	**Code, Program**	**Status**
Evaluate the effectiveness of bio fertilizer *Bukhoderia vietnamesis* TVV75 on rice paddy in Red river delta	1998	In corporation with Agrium inc., Canada	Finished
Study of producing biofertilizer for legume plants	1998-1999	MOST: KHCN 02-06 B	Finished
Composting from domestic waste and sugarcane waste	1999	MOST B99-32-46	Finished
Buiding the produced process of	2000	Branch of	Finished

microbial combination (fixing Nitrogen bacteria and Phosphorous soluble bacteria) and assessment it's effect on soybean		national project No5	
Production of microorganic fertilizer from agricultural and dometic wastes for clean vegetable cultivation	2003-2004	Protocal with Italy	Finished
Building manufacturing processes microorganism preparations to treat farm-wastess into compost fertilizer in spot site for planting crop	2004-2005	B2004-32-66	Finished
Research on bioremedation of Cu, Zn, Pb contaminant in farmland	2006-2007	MOST	Finished
Research on bio-mertarial for covered revegetation in barren land	2012-2013	T2012-04-03TĐ	Finished
Application of VNUA practical process for pig farm waste treatment in Hoang Hoa, Thanh Hoa	2012-2013	Province level	Finished
Research on treatment of Mushroom Culture Residues and Chicken Manure into Bio-Organic Fertilizer, server for safety agricultural production	2014-2015	HV-2014-03-58	Finished
Building a model linking in application of technology of manure waste treatment to industrial production of organic fertilizer with high quality in medium and large farms.	2015-2017	National level project	Finished
Study on buiding the emission index of Polycyclic aromatic hydrocarbons condensate (Polycyclic Aromatic Hydrocarbons, PAHs) and its derivatives (NPAHs) emissions from burning straw after harvesting in Vietnam	2016-2017	Key poject of Univ. Level	Finished

Research on application of Nano technology to production of liquid microbiological preparations from microorganisms, nanochitosan and medical plants for control of nematode diseases in pepper in the Central Highlands	2016-2019	National level project ĐTĐL. CN-07/16	Finished
Study to build emission factors from straw burning activities into emission inventories and assess the impact on air quality in Hanoi city	2017-2019	MOST: KHCN	Finished
Research, application of endogenous microorganisms, root zones to contribute to increase productivity, quality and sustainable development of coffee	2018-2019	Province level	Finished
Research on technology to treat environmental pollution in epidemic and at risk areas of African swine fever	2019-2020	Ministry of Agriclture and rural level	In process
Assessing the impact of Black Soldier Fly (Hermetia illucens Linnaeus, 1758) on biodiversity and proposing directions for using Black Soldier fly to produce feed for livestock and poultry in Vietnam	2021-2022	Ministry of Agriclture and rural level	In process

THE PATENTS AND APPLICATION IN PRACTICE

No	Name of patent	Year
1	Utility solutions: Bio-product and production processes of bio- products using for revegetation	No 36413/QĐ-SHTT, date 30/5/2018
2	Advance scientific No TBKT 01-101:2020/BVTV: Technological process for producing mineral-organic fertilizers from pressed pig manure and peat	Decision No. 2796/QĐ-BVTV-KH. Plant Protection Department - Ministry of Agriculture and Rural Development
3	TBKT 01-105:2021/BVTV: Process of using organic materials and organic fertilizers for the production of	Decision No. 1008/QĐ-BVTV-KH. Plant

	some organic vegetables in the Northern provinces	Protection Department - Ministry of Agriculture and Rural Development
4	License for circulation: microbial product Vnua-MiosV used to treat livestock waste	Decision 373/CN-MTCN. Department of Livestock - Ministry of Agriculture and Rural Development

The research results which applying in practice

No	Name	Scale, applied address	time
1	Biomaterial for revegetation in barren land and hills	Test medel at Dong Tien commune, Viet Yen distric, Bac Giang province	2013-2014
2	Production of bio-organic fertilizer and mineral fertilizer from residue after earthworm feeding	Phu Dong farm at Gialam, Hanoi	2015-now
3	Production of micro-organic fertilizer (in solid and liquid style) from pig manure	Pig Farm at Nghi Cong, Nghe An	2016-now
4	Revegetation model on sloping land	Model in Huong Lac commune, Lang Giang, Bac Giang province	2018-now
5	Revegetation model on sandy beach	Model in Cam Ranh port bay, Khanh Hoa province	2021

PUBLCATIONS AND CONFERENCES

1. **Nguyen Thi Minh** (2001). The effect of microbiological product – TVV75 on spring rice on Degraded soil and Saline soil in Red river delta. *The workshop on Development and Research forwarding the Sustainable Agriculture*. Hanoi, March 2, 2001.

2. Yuichi Saeki and **Minh Thi Nguyen** (2001). Comparison of Nitrogen Content among Soybean varieties. *The workshop on Plant nutrition for sustainable Agricultural Development*. HAU - JICA ERCB Project. Hanoi, December 11-12, 2001.

3. **Minh Thi Nguyen,** Kazuhira Yokoyama and Takuya Marumoto (2003)**.** Survival of Arbuscular Mycorrhizae Fungi *Gigaspora margarita* inoculated in revegetation at Nukui dam site. *The Workshop on Japanese society of Soil science and Plant nutrition*, Vol. 49. Tokyo August, 2003.

4. **Nguyen Thi Minh** (2005)**.** Isolation and selection of Arbuscular Mycorrhizae to inoculate for planting crop. *Journal of Vietnam Soil Science* Vol. 23, p 46-51.

5. **Nguyen Thị Minh,** Lê Anh Tùng (2006). Research on selection of microorganism combinations with high decomposing ability of cellulose to treat fibrous matter. *Journal of Vietnam Soil Science* Vol.25. Special issue on the 31st ceremony of Land and Environment Faculty, Hanoi Agricultural University.

6. Yuichi Saeki, …and **Minh Thi Nguyen** (2005). Phylogenetic Analysis of Soybean – nodulating Rhizobia Isolated from Alkaline Soils in Vietnam. *Journal of Japanese society of Soil science and Plant nutrition* Vol. 51 No 7. p 1043-1052.

7. **Minh Thi Nguyen** (2007)**.** Effects of some organic fertilizers on Vesicular arbuscular mycorrhizal symbiosis establishment and host plant growth. *Journal of Vietnam Soil Science* Vol. 28.

8. **Minh Thi Nguyen** (2007)**.** Effect of inoculated Arbuscular Mycorhizae on legume plant growth in alluvial soil of red river. *Journal of Vietnam Soil Science* Vol. 28.

9. Nguyen Xuan Thanh, Vu Thi Hoan, **Nguyen Thi Minh,** Hoang Hai (2005). Practice of Microbiology. *Vietnam Agricultural Publishing House*. Academic press.

10. Nguyen Xuan Thanh, Vu Thi Hoan, **Nguyen Thi Minh**, Dinh Hong Duyen (2007). Practice of specific Microbiology. *Vietnam Agricultural Publishing House*. Academic press.

11. **Nguyen Thi Minh**, Vu Thi Len (2008). Selection of microorganism combinations with high biological activity to treat wastewater from daily life. *Journal of Vietnam Soil Science* Vol. 30.

12. **Minh Thi Nguyen**, Kazuhira Yokoyama and Takuya Marumoto. Effect of inoculation of Arbuscular mycorhizal (AM) fungi on revegetation at Nukui dam site, Japan (un-public).

13. **Minh Thi Nguyen,** Kazuhira Yokoyama and Takuya Marumoto. Determination of inoculated mycorhizal fungi, *Gigaspora margarita* CK in revegetation site at Nukui dam, Japan (un-public).

14**. Minh Thi Nguyen** and Kazuhira Yokoyama. Diversity of rhizobia isolated from nodules on different soybean cultivars in a field and multiple infection. The 1st Young Scientists seminar in the Asia Core program. Yamaguchi, Japan, 2008.

15. **Minh Thi Nguyen**, Kazue Akiyoshi, Masamichi Nakatsukasa, Yuichi Saeki and Kazuhira Yokoyama (2008). Rhizobial diversity among different soybean cultivars directly correlated to the increase in multiply occupined nodules. *The conference of Japanese society of Soil science and Plant nutrition* Vol. 104. Tokushima, November 2008.

16. **Minh Thi Nguyen**, Kazue Akiyoshi, Masamichi Nakatsukasa, Yuichi Saeki and Kazuhira Yokoyama (2009). Competition and multiple-occupancy on nodulation by inoculation of soybean nodulating-bacteria. *The conference of Japanese society of Soil Microbiology*. Fukuoka, June 2009.

17. **Minh Thi Nguyen**, Kazue Akiyoshi, Masamichi Nakatsukasa, Yuichi Saeki and Kazuhira Yokoyama (2010). Multiple occupancy of nodules by nodulating rhizobia on field-grown soybeans with attendance of *Sinorrhizobium* spp. *Japan Soil Science and Plant Nutrition* Vol. 56 (No 3), p 382-389.

18. **Minh Thi Nguyen,** Kazue Akiyoshi, Masamichi Nakatsukasa, Yuichi Saeki and Kazuhira Yokoyama (2010)**.** Development of multiple-occupancy nodules in correlation of the density-

dependent infection by soybean nodulating rhizobia. *Soil and Microbiology* Vol. 64 (No 2), p 101-107.

19. **Minh Thi Nguyen**, Kazuhira Yokoyama and Takuya Marumoto (2011). Determination and effect of Arbuscular mycorrhizal fungi, *Gigaspora margarita* CK inoculated in revegetation at Nukui dam site. *The 3rd International conference on Bioscience and Biotechnology*. Bali, Indonesia. September 21-22, 2011.

20**. Minh Thi Nguyen,** Sang Thi Nguyen and Quyen Thi Nguyen (2012). Fermentation of Agricultural Wastes after Harvesting by Microbes Combination for Bioethanol Production. *J. Sci. & Devel.*, Vol. 10, No. 4: 654-660

21. **Minh Thi Nguyen** and Quyen Thi Nguyen (2013). Potential of Bioethanol Production from Agricultural Wastes by Microbe's Fermentation. *The 9th Young Scientists seminar in the Asia Core program*. Yamaguchi , Japan.

22. **Minh Thi Nguyen,** Thu Ha Nguyen and Quoc Hung Phan (2014). Isolation and selection of Arbuscular Mycorrhizae to produce Bio-material for covered vegetation. *Vietnam Journal of Agriculture and rural development* No 3+4: 49-55.

23. **Minh Thi Nguyen,** Thu Ha Nguyen, Quoc Hung Phan, Tu Diep Nguyen, Xuan Huong Vu Thi (2014). Research on determination of material resources to produce Bio-material for covered revegetation. *Vietnam Journal of Agriculture and rural development* No 6: 111-116.

24. **Minh Thi Nguyen,** Thu Ha Nguyen and Quoc Hung Phan (2014). Research on construct the production process of Biomaterial for revegetation. International conference on *"Effective land, water use in agriculture and protection of rural environment in Viet Nam and Japan"*. Hanoi, Vietnam. Sept, 2014.

25. **Nguyen Thi Minh**. Research on treatment of edible mushrooms wastes into organic substrate for clean vegetables cultivation. The workshop of woman scientists in Vietnam National University of Agriculture. October, 2015.

26. Nguyen Van Thao, Nguyen Thi Lan Anh, Nguyen Thi Minh, Do Nguyen Hai, Nguyen Thu Ha (2015). Use of Microbial Formulations to Produce Bio-Organic Fertilizer from Mushroom Culture Residues and Chicken Manure. Vietnam J. Sci. & Devel. 2015, Vol. 13, No. 8: 1415-1423.

27. Suprayogi, **Minh T. Nguyen**, Noppon Lertwattanasakul, Nadchanok Rodrussamee, Savitree Limtong, Tomoyuki Kosaka, MamoruYamada (2016). A *Kluyveromyces marxianus* 2-deoxyglucose-resistant mutant with enhanced activity of xylose utilization. International Microbiology, vol. 18: 235-244.

28. **Nguyen Thi Minh** and Nguyen Thanh Nhan (2016). Selection of Arbuscular Mycorrhizae and Rhizobium for production of biological materials used to revegetation for the campus scene. Vietnam J. Agri. Sci. 2016, Vol. 14, No. 8: 1238-1247.

29. **Nguyen Thi Minh** (2016). Treatment of mushroom culture wastes for use as organic substrate for safe vegetable cultivation. Vietnam J. Agri. Sci. 2016, Vol. 14, No 11: 1781-1788.

30. **Nguyen Thi Minh**, Vu Van Tuan (2016). Experience lessons from the registration of a utility solution patent for a biological product. Whorkshop Intellectual Property: from reasoning to reality at the Vietnam National University of Agriculture. May, 2017.

31. Nguyen Thi Minh (2017). Selection of endophytic microorganisms from the ecological area of alkaline soil, Hai Phong. J. of Vietnam Argriculture Science. 2017, Vol 15, No 5: 619-630.

32. Nguyen Hai Van, Nguyen Thi Minh (2017). Research on using endophytic microorganisms isolated from different ecological regions. J. of Vietnam Argriculture Science. 2017, Vol 15, No 5: 605-618.

33. Nguyen Thi Minh, Vu Thi Xuan Huong (2017). Research on the effect of multi-functional microbial preparations on maize. Journal of Agriculture and Rural Development No. 18, 2017.

34. Nguyen Thi Minh, Nguyen Ngoc Lin (2017). Study the composition and properties of microorganisms in pomelo soil in Xuan Mai, Hanoi. Journal of Agriculture and Rural Development No. 16, 2017' 31-37.

35. Nguyen Thi Minh, Do Minh Thu (2017). Study on isolation and selection of endophytic microorganisms from saline soil region in Giao Thuy district, Nam Dinh province. J. of Vietnam Argriculture Science. 2017, Vol 15, No 9.

36. Nguyen Thi Minh, Doan Thi Linh Dan (2017). Research on using biological product to treat rice straw into organic substrate for safe vegetables. Journal of Agriculture and Rural Development No. 19, 2017.

37. Nguyen Thi Minh (2017). Ability to use phosphorus solubilized microorganisms in soil improvement. Journal of Agriculture and Rural Development No. 20, 2017.

38. Nguyen Thi Minh, Nguyen Quang Huy, Vu Thi Xuan Huong (2017). Research on using pig waste to raise earthworms. Journal of Agriculture and Rural Development No. , 2017.

39. Nguyen Thi Minh, Vu Huong Giang, Nguyen Thi Khanh Huyen (2018). Research on treatment of aquaculture environment by probiotic product. Conference; Establishment of an international research core for new bio-research fields with microbes from tropical areas. Yamaguchi University, Japan 2018

40. (2018). Analysis of gluco repression mechanism in thermotolerant yeast *Kluyveromyces maxianus* Conference; Establishment of an international research core for new bio-research fields with microbes from tropical areas. Yamaguchi University, Japan 2018.

41. Nguyen Thị Minh, Le Minh Nguyet, Nguyen Thị Khanh Huyen (2019). Isolation and selection of Mycorrhizal Arbuscular mycorhizae Fungi for the production of biomaterials for revegetation on sloping soils. Journal of Agriculture and Rural Development No. 20, 2019.

42. Nguyen Thị Minh, Nguyen Thị Khanh Huyen (2019). Research on raw materials for the production of biomaterials used to revegetation on sloping land. Journal of Agriculture and Rural Development No. 20, 2019.

43. Nguyen Thị Minh, Nguyen Thị Khanh Huyen, Duong Khoi Khoa (2019). Research on the use of biological materials in revegetation on sloping land in Vietnam. Journal of Vietnam Science and Technology. 2019

44. Nguyen Thi Ai Nghia, Pham Van Cuong, Nguyen Thi Minh, Tran Thi Minh Hang (2020). Effect of manual compost prepared by new microbioganism composting product (VNUA-miosV) on growth, yield and quality of organic vegetable in Luong Son, Hoa Binh. Journal of Agriculture and Rural Development No. 22, 2020: 37-44.

45. Nguyen Thi Minh, Doan Thi Linh Dan, Pham Van Cuong. Selection of microbial varieties to produce new microbial products (Vnuaa-MiosV) for treatment of livestock waste. Journal of Agriculture and Rural Development No. 5, 2021: 102-109.

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50. Nguyen Thi Minh (2017). Arbuscular Mycorrhizae applied in agricultural production and environmental protection. Publisher of Agricultural University

51. Nguyen Huu Thanh, Tran Van Chinh, Luyen Huu Cu, Cao Viet Ha, Do Nguyen Hai, Phan Quoc Hung, Hoang Van Mua, Nguyễn Thị Minh (2017). Soil science. Publisher of Agricultural University.

I hereby declare that the information that has been provided in this form and on any attachments to it is complete and correct in every detail.

Hanoi, June 15, 2020

Organization
(sign and stamp)

Signature

Nguyen Thi Minh