

CURRICULUM VITAE

PERSONAL DETAILS

Family name: **Dao**
Given name: **Trong Hung**
Marital status: Married
Date of birth: 2nd February, 1977
Place of birth: Ha Tinh, Vietnam
Nationality: Vietnamese
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ACADEMIC QUALIFICATION

2015 - 2019: PhD student at Institute of Geography, University of Göttingen, Germany
Main study field: Physical Geography

2006 - 2008: Master of Agricultural Sciences, Hanoi Agriculture University, Vietnam
Main study field: Soil Science

1995 - 1999: Engineer of Agriculture, Hanoi Agriculture University, Vietnam
Main study field: Land Resource Management

EMPLOYMENT RECORDS

2020 - Now: Researcher, Department of Soil Genesis and Classification Research, Soils and Fertilizers Research Institute (SFRI), Hanoi, Vietnam
Main research topics: improved crop nutrition; modeling the nutrient flows and balances in different scales, greenhouse gas emissions from agricultural production, planning and managing agricultural land resource, assessing land degradation at multi-scales.

2015 - 2019: PhD student at Department Physical Geography, University of Göttingen, Germany
Research topic: Management options for optimizing nutrient cycling and reducing greenhouse gas emissions from smallholder rice farms in Vietnam.

2008 - 2015: Researcher, Department of Soil Genesis and Classification Research, Soils and Fertilizers Research Institute (SFRI), Hanoi, Vietnam
Main research topics: improved crop nutrition; improved soil use and management; land evaluation.

2006 - 2008: Master student, Hanoi Agriculture University, Hanoi, Vietnam

2000 - 2006: Researcher, Department of Soil Genesis and Classification Research,
Main research topics: Soil genesis and classification in tropical conditions; soil and land resources evaluation; soil use and management in the context of community-based resources management.

EXPERIENCES WITH RESEARCH AND/OR DEVELOPMENT PROJECTS

- 2019 - Present Core member, National Research Project: *"Mint plant development and honey beekeeping value chain in the rocky highlands in Ha Giang Province, Vietnam"*. Main responsibilities: Conducting household surveys, field experiments design and monitoring and write reports.
Core member, National Research Project: *"Research and use specific specialized fertilizers for lychee trees in Bac Giang Province, Vietnam"*. Main responsibilities: Conducting household surveys, assessment of soil fertility and plant nutrition for lychee; field experiments design and monitoring and write reports.
- 2015 - 2019 Leader of project: *"Management Options for Optimizing Nutrient Cycling and Reducing Greenhouse Gas Emissions from Smallholder Rice Farms in Vietnam"*. Main responsibilities: Conducting household surveys, field experiments design and monitoring and write reports, manuscripts.
- 2011 - 2015 Member, International Research Project: *"Optimizing environmentally friendly biogas production from livestock manure to reduce greenhouse gas emissions - SUSAN II"*. Main responsibilities: monitoring greenhouse experiments; analyzes of GHGs samples; data analysis.
Core member, International Research Project: *"Sowing the Seeds of Change: Community-based Climate Change Mitigation through Sustainable Rice Production"* Climate Change Adaption program funded by AUSAID through The Netherlands Development Organization (SNV). Main responsibilities: Field experiments design and monitoring GHGs emission measurement, GHGs analysis and assessment; write reports.
Core member, National Research Project: *"Research solutions to improve the efficiency of land use in the northwest of Vietnam"* at SFRI. Main responsibilities: Field experiments design and monitoring, soil analysis and assessment.
Core member, National Research Project: *"Study to the solutions to increase the efficiency of using phosphorus on degraded soils"* at SFRI. Main responsibilities: Conducting household surveys, soil survey, analyzing data; doing experiment in green houses and fields, building demonstrations; write reports.
- 2010 - 2011 Member, International Development Project *"Development of rice production and other crops in Sudan"*, a Sudan - Vietnam agricultural development collaboration. Responsibility: Specialist in soil and fertilizer management (1 year in Sudan).
- 2008 - 2010 Core member, International Research Project: *"Community-based Land Management for Poverty Alleviation in Vietnam – CLMPAV"*, a co- operation between Canadian Society of Soil Science (CSSS) and SFRI. Main responsibilities: Assessment of soil fertility and plant nutrition; team leader of CLMPAV's sub-project Tuyen Quang province.
- 2004 - 2006 Member, National Research Project: *"Research using crop residuals to intensively increase productivity, quality of agricultural products and reduce the amount of mineral fertilizer applied to crops in a rice system"* at SFRI. Main responsibilities: monitoring field experiments; analyzes of soil, fertilizer and crop residual samples; data analysis.
- 2000 - 2004 Member, *"Social Forestry Support Program"*, a cooperation between

Vietnam (Ministry of Agricultural and Rural Development - MARD) and Switzerland (Swiss Development Cooperation - SDC) on research and teaching on social forestry.

AWARDS

- 5.2019-9.2019 Family Oriented Finishing Grant from GAUSS – University of Göttingen, Germany.
- 4.2015-4.2019 Scholarship from the Vietnam government for PhD program at the University of Göttingen, Germany.
10. 2011 Award from Presidency of the Republic of Sudan on complete outstanding Tasks and research technology transfer project Development of rice production and other crops in Sudan.

RELEVANT SKILLS

Skills relevant for soil and crop nutrition research:

- Relevant knowledge and field experience on sandy soil, slopping land, acid upland soil and alkaline saline soil in Vietnam
- Familiar with different farming systems in Vietnam
- Soil surveys, mapping and laboratory analysis
- Taking GHG samples from fields

Skills relevant for community-based agricultural development and forestry projects:

- Organizing agricultural training courses for farmers, local staff and extension staff to transfer the technology to farmer with Farmer Field School (FFS).
- Participatory technology development (PTD).

Generic skills

- Fluency in written and spoken English.
- Computer skills – MS Word, Excel, Power Point, SPSS, IRRISTAT.
- Ability to work independently as well as in group.
- Good communication skills.

PUBLICATIONS

English journals

1. **HUNG, D.**, CALLUM, C.B, DORODNIKOV, M., SAUER, D. (2021): Improved water and rice residue managements reduce greenhouse gas emissions from paddy soil and increase rice yields. In: Paddy and Water Environment. <https://doi.org/10.1007/s10333-021-00877-0>
2. HUGHES, J.H., **HUNG, D.**, SAUER, D. (2020): Silicon recycling through rice residue management does not prevent silicon depletion in paddy rice cultivation. In: Nutrient Cycling in Agroecosystems 118: 75–89 doi.org/10.1007/s10705-020-10084-8
3. KECK, M., **HUNG, D.** (2019): Burn or bury? A comparative cost-benefit analysis of crop residue management practices among smallholder rice farmers in northern Vietnam. In: Sustainability Science 14 (2): 375-389. doi.org/10.1007/s11625-018-0592-z
4. **HUNG, D.**, HUGHES, J.H., KECK, M., SAUER, D. (2019): Rice-residue management practices of smallholder farms in Vietnam and their effects on nutrient fluxes in the soil-plant system. In: Sustainability 11 (6): 1641 doi.org/10.3390/su11061641

Vietnamese journals

1. Nguyen Van Bo, Tran Minh Tien, Dao Trong Hung, Aliaksei Shcharbakou (2014), *Potassium and crop quality – overview*, Science and Technology Journal of Agricultural and Rural development (9/2014) ISSN 1859 - 4581.
2. Tran Quoc Vuong, Dao Trong Hung, Tran Minh Tien, Ho Quang Duc (2014), *Effect of rate and type of phosphorus and phosphorus form on crop yield on grey degraded soil in Bac Giang province*, Journal of Vietnamese Agricultural Science and Technology (5/2014) ISSN -1859-1558.
3. Tran Anh Tuan, Ho Quang Duc, Truong Xuan Cuong, Dao Trong Hung (2011), *Characteristics of agricultural land resources in Tuan Giao district, Dien Bien province*, Special issue on the occasion of twentieth anniversary of the Vietnam society of Soil Science - Vietnam Soil Sciences Journal- ISSN 0868-3743.
4. Dao Trong Hung; Nguyen Van Dao; Ho Quang Duc (2010), *Evaluating changed properties of the Saline soil of Tien Hai district Thai Binh province after 20 years of utilization*, Vietnam Soil Sciences Journal- ISSN 0868-3743.
5. Tran Thi Tam; Dao Trong Hung (2010), *Effect of by- product on yielding an possibility of reducing potassium application rate for crop under rice – based cropping systems on marine sandy soil and degraded soil*, Vietnam Soil Sciences Journal- ISSN 0868-3743.
6. Tran Thi Tam; Dao Trong Hung; Vu Dzuong Quynh (2010), *Effect of organic manure on rice yield on sandy soil in Nghe An province*, Vietnam Soil Sciences Journal- ISSN 0868-3743.
7. Tran Thi Tam; Dao Trong Hung; Hoang Ngoc Thuan (2010), *Fertilizer dose for rice crop on sandy soil in Nghe An province*, Vietnam Soil Sciences Journal- ISSN 0868-3743.
8. Tran Thi Tam; Hoang Ngoc Thuan; Dao Trong Hung; Vu Dzuong Quynh; Pham Thi Nhung (2006), *Effects of crop residues to bury crop yield and soil fertility in the cropping pattern: Spring rice – summer rice - winter maize*. Ministry of Agriculture and Rural Development - Proceedings of scientific conference to review and Agricultural Technology 2001-2005, page from 152 to 159. Agricultural publishing house, Hanoi.

REVIEWER ACTIVITIES

Journals:

Sustainability (MDPI publisher)

Agriculture (MDPI publisher)

Agronomy (MDPI publisher)

