



## PRESENTATION FOR SHORT-TERM EXCHANGE STUDENT

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## 1. SELF – INTRODUCTION

*Full name:* **Phan Thi Lam**

*Nationality:* **Vietnamese**

*Age:* **25**

Graduated at Hue University of Agriculture and Forestry (HUAF)

*Major:* **Crop Science**

*Current academic:* **Master student – HUAF**

*Study duration at GSGES:* **6 months ( 2<sup>th</sup> April – 29<sup>th</sup> September)**

## 2. SUPERVISOR IN KYOTO UNIVERSITY

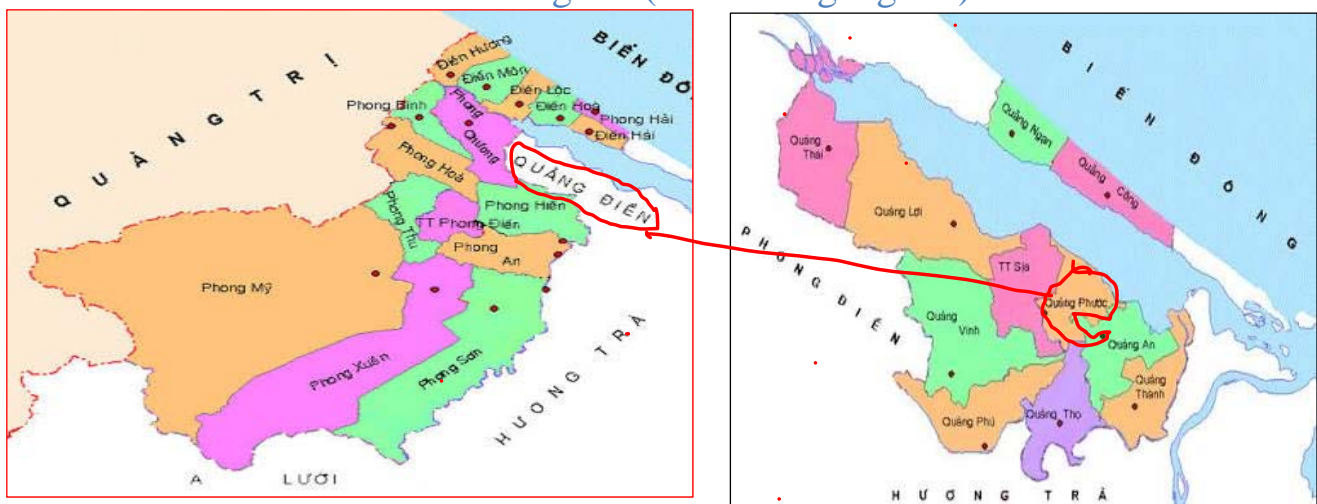
*Full name:* Professor. SHINYA FUNAKAWA

*Affiliation:* Terrestrial Ecosystem Management Laboratory GSGES –  
Kyoto University

## 3. MASTER THESIS IN VIETNAM

*Thesis:* Study on water and nutrition management for paddy rice production on salinity areas in Vietnam.

*Location of experiment:* Quang Phuoc commune, Quang Dien district, TT Hue province where agricultural lands <about 2.500 ha> are seriously affected by saline water intrusion from the lagoon (Tam Giang lagoon).



### 3. MASTER THESIS IN VIETNAM

\* Objectives of my research:

- Describe /understand the dynamics and causes of salinity
- Analyze the relationship between rice yield and soils properties such as electrical conductivity, pH, Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>2+</sup>, Mg<sup>2+</sup>...
- Based on the obtained results, propose proper guidelines for salinity control promote sustainable agricultural.

### 4. WORK AT TERRESTRIAL ECOSYSTEM MANAGEMENT LABORATORY AND STUDY OUTCOME

*Topic:* Analysis of soil samples from salt affected areas of Kazakhstan (four samples was collected in Kazakhstan)

*The main objectives:*

- Learn the experimental procedures to analyze soil properties.

Soil parameters measured:

pH,

EC

Na<sup>+</sup>

K<sup>+</sup>

Ca<sup>2+</sup>

Mg<sup>2+</sup>

SAR (Sodium adsorption ratio)

$$SAR = \frac{[Na^+]}{([Ca^{2+}] + [Mg^{2+}])^{0.5}}$$

- Review the related literature

# Study outcome

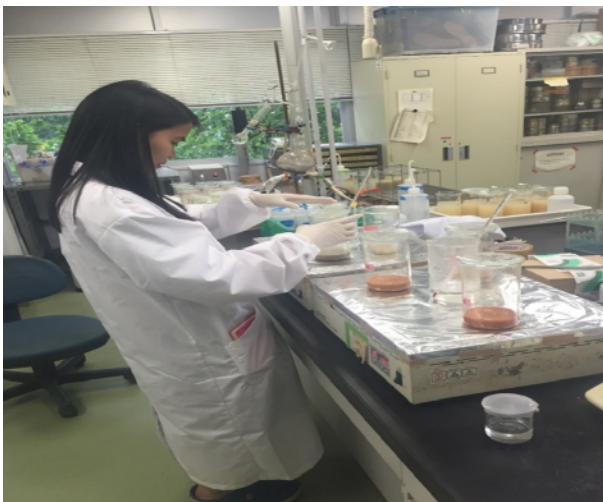
Dilution Sample	Ca (100)	Mg (10)	Na (200)	Ka (20)
1	0.20	0.15	0.21	0.45
2	0.68	2.06	0.15	1.03
3	0.62	0.56	0.32	0.35
4	0.75	0.48	0.36	0.14



Valency	2	2	1	1	
Atomic weight	40.08	24.3	23	39.1	
(Cmolc kg-1)	Ca	Mg	Na	K	SAR
1	2.02	0.27	3.76	0.46	3.51
2	6.79	0.34	3.65	1.06	1.93
3	6.24	0.93	5.58	0.36	2.95
4	9.73	0.79	6.25	0.14	2.74

# Study outcome

- Learned materials and methodology for analysis of salt affected soils



## Study outcome

- By literature review, I found out the practical solutions that address and mitigate the impacts of salinity problems affecting agricultural production.

*Examples:*

- Adjust planting time. Sow seeds early, when possible after onset of the summer season.
- Select a crop that fits the conditions in different soil areas.
- .....

## 5. STATUS OF MASTER THISIS WORK

\* *Completed portions:*

- Introduction
- Literature review
- Methodology

\* *Still to complete completion of results*

- Discussion
- Submission of thesis report

## 6. WHAT I HAVE LEARNED IN THE DISPATCHED COUNTRY

- Cited many literatures relates to soil salinity and crop productivity
- Learned the methodology of soil texture: pH, EC,  $\text{Ca}^{2+}$ ,  $\text{Na}^+$ ,  $\text{Mg}^{2+}$  ·  $\text{K}^+$
- Engraced with knowledge relates to soil science and environmental issues.

## 6. WHAT I HAVE LEARNED IN THE DISPATCHED COUNTRY

- Attended classes, lectures, seminars
- Field trips
- Visited some places (Cultural exchange )



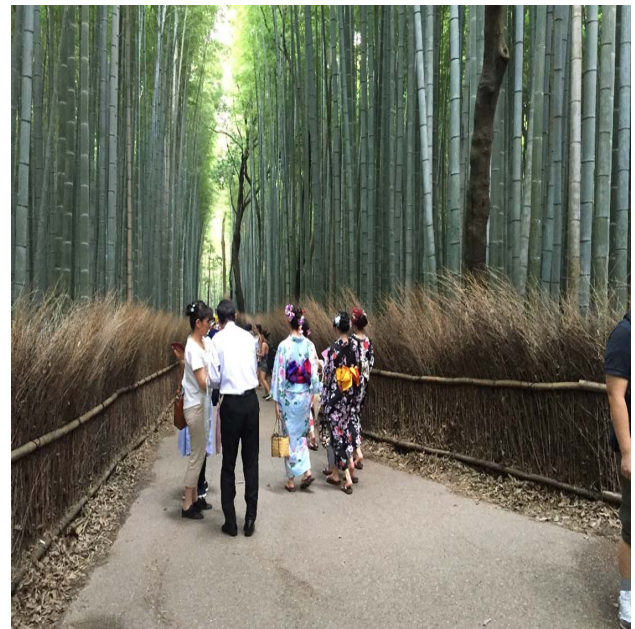
## \* Field trip to Wakayama prefecture

I participated Plum harvesting with local farmers at Wakayama prefecture (Understanding Japanese agriculture and rural livelihood through lectures and experiences )



## \* Cultural exchange

- I visited some places



# SIGNIFICANCE OF MY STUDY IN THE DISPATCHED COUNTRY WAS USEFUL FOR MY COUNTRY IN VIETNAM

*How my study in Kyoto can be useful for my study in my country ( for my master study )*

- I will apply my skills of soil samples analysis in Vietnam
- Fluency and understanding of methods to analysis of soil samples



**Thank you for your listening**