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of the European Union

Report

Staff Mobility between the University of Battambang (UBB)-Cambodia and Université de Nantes (NDU)-France

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Period: 25th February-25 March 2019

Acknowledgement

I would like to take this opportunity to express my sincere thanks to the DOCKSIDE Project and the Erasmus+ programme of the European Union for making my visit possible through financial and administrative support. I would also like to thank Prof. Thomas Vallée, a project manager of the DOCKSIDE Project and a professor of the **Université de Nantes** for giving me the chance for grasping this mobility and his supervision of my research project. Moreover, Prof. Patrice Guillotrau of the **Université de Nantes** for his scientific guidance and advice on my research. Furthermore, Ms Ria Deniska, the DOCKSIDE project coordinator, and Mr Sovanna Seav, a project coordinator for the **University of Battambang** for their assistance in the financial proceeding, administration and documents.

This one-month staff mobility was financially supported by the *DOctoral program in Khmer Universities Strengthening the International Development of Environmental and maritime research* (DOCKSIDE). It is a structural project co-funded by the Erasmus+ Programme of the European Union.

Website: <http://www.dockside-kh.eu/>

I have been provided with the staff mobility for one month period to conduct scientific research on “Inland commercial fishing lot and mobile gear fishing in the Tonle Sap Lake: an assessment of fisheries and fish community structure” with guidance from **Prof. Patrice Guillotrau** and **Prof. Thomas Vallée** at the Université de Nantes, France.

I have been provided an office in the Research Institut LEMNA¹, IAE-Nantes, Bâtiment Erdre-Chemin de la Censive du Tertre, Nantes Cedex 3 ([Figure 1](#)). Here, I happened to know other PhD students conducting their scientific research. In this office, I was given access to the library, scientific paper downloading and printing. In the office, I have downloaded and read the related scientific papers for ecological and biological ideas, research questions and statistical analyses.

On 1st March 2019, we have a meeting with Prof. Patrice Guillotrau² and Prof. Thomas Vallée from the **Université de Nantes**, and Nicolas Bez **Institut de Recherche pour le développement (IRD)**³ and Stephanie Mahevas from the **Institut français de recherche pour l'exploitation de la Mer (IFREMER)**⁴ and Caroline (MSc. Student) from Canada. Here, I have given a short

¹ <https://lemna.univ-nantes.fr/>

² <http://www.dockside-kh.eu/patrice-guillotrau-university-nantes/>

³ <http://www.umar-marbec.fr/bez-nicolas.html>

⁴ <https://annuaire.ifremer.fr/cv/16343/>

presentation illustrating an overall overview of my scientific research, i.e. research title, research questions, and method on data collection, statistical analyses proposed and preliminary results. Then, I was asked about ecology and hydrology of the lake, and the specific method on data collection.

On 12 March 2019, we have launched the second meeting with Prof. Guillotrau and Prof. Vallée (Figure 1). Meanwhile, I have provided a short summary of the project and then we have discussed the feasibility to develop the idea and statistical methods. Prof. Guillotrau and Prof. Vallée have proposed several statistical methods based on the data. Prof. Guillotrau has also given the *R*-package and *R*-scripts to treat the data. Moreover, I have provided them with the related scientific papers published in the Tonle Sap Lake and the Mekong River.





Figure 1. A collection of activities during my mobility in the Laboratoire LEMNA, IAE-Nantes, Université de Nantes, with prof Prof. Patrice Guillotrau and Prof. Thomas Vallée.

On 22 March 2019, we have had the third meeting with Prof. Guillotrau to follow up the progress and results. Then, Prof. Guillotrau proposed the figures and tables that may be used in the manuscript. Then, we discussed the philosophical concept manuscript, the idea and structure of the manuscript.

Besides these, we have talked and discussed through email and Skype. We are still keeping contact for progressing the results and *R*-script.

Furthermore, during the weekend, I have visited the ocean Atlantic with the colleagues (Dr Pierr Alexandre) from the Laboratoire LEMNA, IAE-Nantes, the Université de Nantes. Meanwhile, we have explored the city and beach.

Further actions

I will be doing a presentation about the scientific results, gained from the staff mobility, in the DOCKSIDE's Summer School on 5-13 July 2019 at the National University of Management (NUM), Phnom Penh, Cambodia. In this occasion, I would also share the research method and

statistical analyses utilized in this research to the colleagues and other researchers. The colleagues could apply the statistical method (i.e. multivariate analyses and predictive models) in social research. Then, we will be drafting the manuscript and submitting for publication in a peer-reviewed journal. The findings of this scientific research paramount importance for initiating the policy for management and conservation of the fisheries resources. Moreover, within the one-month period, I have learned two statistical methods naming Factorial Multiple Analysis (FMA) and Hierarchical Factorial Multiple Analysis (HMFA). I would utilize this method for future research work and apply to improve the research for my MSc. students. Furthermore, this staff mobility has provided a chance work with Prof. Patrice Guillotrau and Prof. Thomas Vallée and enable us to collaborate for the next future works, especially I am finding the feasibility for the proposal for the Erasmus+ programme of the European Union.

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