

## **Asst. Prof. Dr. Uday Pimple**

### **EDUCATIONAL BACKGROUND**

Ph.D. (Geography: Remote sensing of forest environments), AgroParisTech, France

M.Eng. (Remote sensing and Geographic Information Systems), Asian Institute of Technology, Bangkok, Thailand

### **SKILLS**

Technical: Remote sensing, forest field survey, field sensor for monitoring forest ecosystems, spatial dynamics

### **RESEARCH INTEREST**

Mapping and monitoring tropical forest change dynamics Mangrove forest tree species diversity and their interactions with environmental settings Landscape ecology with a particular focus on conservation and its effects on biodiversity Field sensors for real-time monitoring of forest environments Remote sensing and Drones for forest structure and carbon sequestration monitoring

### **PUBLICATIONS**

#### **International Journal**

- Pimple, U., Simonetti, D., Peters, R., Berger, U., Podest, E. and Gond, V. (2023) Enhancing monitoring of mangrove spatiotemporal tree diversity and distribution patterns. *Land Degradation and Development*. 34(5): pp. 1265-1282. March 2023
- Pimple, U., Leadprathom, K., Simonetti, D., Sitthi, A., Peters, R., Pungkul, S., Pravinongvuthi, T., Dessard, H., Berger, U., Siri-on, K., Kemacheevakul, P. and Gond, V. (2022) Assessing mangrove species diversity, zonation and functional indicators in response to natural, regenerated, and rehabilitated succession. *Journal of Environmental Management*. 318, 115507, <https://doi.org/10.1016/j.jenvman.2022.115507>. September 2022
- Pimple, U. (2020) Dataset on plot inventories of species diversity and structural parameters of natural and rehabilitated mangrove forest in the Trat province of Thailand. *Data in Brief*. 30, 105500, <https://doi.org/10.1016/j.dib.2020.105500>. Jun
- Pimple, U., Simonetti, D., Hinks, I., Oszwald, J., Berger, U., Pungkul, S., Leadprathom, K., Pravinongvuthi, T., Maprasoap, P. and Gond, V. (2020) A history of the rehabilitation of mangroves and an assessment of their diversity and structure using Landsat annual composites (1987–2019) and transect plot inventories. *Forest Ecology and Management*. 462: 118007, <https://doi.org/10.1016/j.foreco.2020.118007>. April 2020
- Pimple, U., Simonetti, D., Sitthi, A., Pungkul, S., Leadprathom, K., Skupek, H., Jaturong, S.-a., Gond, V. and Towprayoon, S. (2018) Google Earth Engine Based Three Decadal Landsat Imagery Analysis for Mapping of Mangrove Forests and Its Surroundings in the Trat Province of Thailand. *Journal of Computer and Communications*. 6: pp. 247-264. January 2018
- Kieu Diem, P., Pimple, U., Sitthi, A., Varnakovida, P., Tanaka, K.P., Sukan, Leadprathom, K., LeClerc, M.Y. and Chidthaisong, A. (2018) Shifts in Growing Season of Tropical Deciduous Forests as Driven by El Niño and La Niña during 2001–2016. *Forests*. 9(8): pp. 448-468. August 2018

- Pimple, U., Sitthi, A., Simonetti, D., Pungkul, S., Leadprathom, K. and Chidthaisong, A. (2017) Topographic Correction of Landsat TM-5 and Landsat OLI-8 Imagery to Improve the Performance of Forest Classification in the Mountainous Terrain of Northeast Thailand. *Sustainability*. 9(2), 258; <https://doi.org/10.3390/su9020258>. February 2017

### International Conference

- Sein, K.K., Chidthaisong, A. and Pimple, U. (2018) Assessment of vegetation drought using MODIS derived VCI and CHIRPS precipitation data: Case study in Taung Kyune reserved forest in Myanmar. In *7th International Conference on Sustainable Energy and Environment (SEE2018)*. Bangkok, Thailand. 28-30 November 2018
- Sein, K.K., Chidthaisong, A., Pimple, U. and Htay, T.M. (2017) Assessment of Climate Extreme Events along the Coastal Region in Myanmar. In *International Conference on Innovative Research in Science, Technology and Management (ICIRSTM2017)*. Singapore. September 16-17, 2017
- Diem, P.K., Pimple, U., Sitthi, A., Varnakovid, P., Kaewthongrach, R. and Chidthaisong, A. (2017) Responses of Tropical Deciduous Forest Phenology to Climatic Variation in Northern Thailand. In *The 5th International Conference on Environmental Research and Technology (ICERT2017)*. Penang, Malaysia. August 23-25, 2017
- Win, S., Chidthaisong, A., Aksornkoae, S., Tripitehkul, S., Pimple, U., Varnakovid, P., Limsakul, A. and Towprayoon, S. (2016) Changes and recoveries of mangrove in Ayeyarwaddy, Myanmar after cyclone Nargis since 2008. In *6th International Conference on Sustainable Energy and Environment (SEE2016)*. Bangkok, Thailand. 28-30 November 2016
- Sein, K.K., Chidthaisong, A., Pimple, U., Htay, T.M. and Varnakovid, P. (2016) Changes in Temperature and Precipitation and their Extreme Indices over Dry Zone Area in Central Myanmar. In *International Conference on Climate Change, Biodiversity and Ecosystem Services for the Sustainable Development Goals (SDGs): Policy and Practice*. Phetchaburi, Thailand. June 27-29, 2016
- Sein, K.K., Chidthaisong, A., Oo, K.L., Pimple, U. and Varnakovid, P. (2016) Trends and extremes in observed daily precipitation and temperature in hilly region of Myanmar during 1981-2015. In *6th International Conference on Sustainable Energy and Environment (SEE2016)*. Bangkok, Thailand. 28-30 November 2016
- Pimple, U., Sitthi, A., Pungkul, S., Leadprathom, K. and Chidthaisong, A. (2016) Topographic correction of Landsat TM5 imagery to improve forest classification. In *6th International Conference on Sustainable Energy and Environment (SEE2016)*. Bangkok, Thailand. 28-30 November 2016
- Diem, P.K., Chidthaisong, A., Pimple, U., Sitthi, A., Varnakovid, P., Tanaka, K. and Kaewthongrach, R. (2016) Teak Plantation Phenology Changes and its Relationships to Climate Variability in Lampang Province, North of Thailand. In *International Conference on Climate Change, Biodiversity and Ecosystem Services for Sustainable Development Goals: Policy and Practice*. Phetchaburi, Thailand. June 27-29 2016
- Diem, P.K., Chidthaisong, A., Pimple, U., Sitthi, A., Varnakovid, P., Kaewthongrach, R. and Tanaka, K. (2016) Responses of Deciduous Forest to El Niño using Remotely sensed Technique: A case study in Thailand. In *6th International Conference on Sustainable Energy and Environment (SEE2016)*. Bangkok, Thailand. 28-30 November 2016.

**Books**

Gond, V., Berger, U., Pimple, U., Oszwald, J. (2019) Surveiller et restaurer les mangroves du sud-est asiatique, In. *Les mangroves, Dossier pédagogique 2018-2019*, Rédacteurs : Feuillassier, L., Rognan, A., Oceanopolis, 29 pages.