

## CURRICULUM VITAE

**Family Name:** Khunrattanasiri

**First Name:** Weeraphart

**Date of Birth:** 29 April 1977

**Place of Birth:** Bangkok

**Nationality:** Thai

**Education:**

1993 - 1997 *Kasetsart University / Thailand*  
 degree obtained: **Bachelor of Science (Forestry)**  
 field of study in forest resources (forest management)

1998 – 2000 *Kasetsart University / Thailand*  
 degree obtained: **Master of Science (Forestry)**  
 graduate program in forest management

2002 - 2006 *Albert-Ludwigs-Universität Freiburg / Germany*  
 degree obtained: **Dr.rer.nat. (Forest Biometry)**  
 research interest in forest inventory and remote sensing

**Title of M.S. Thesis:** Combined Ground and Remotely Sensed Indicators of the Sustainability of Forest Management: Case Study at Huai Nam Gud, Khunkong Watershed Research Station, Changwat Chiangmai  
**Thesis Advisor:** *Associate Professor Dr. Songkram Thammincha*

**Title of Dissertation:** Development of Forest Inventory Techniques with Remote Sensing for Forest Resources Assessment  
**Dissertation Advisor:** *Professor Dr. Dr. h.c. Dieter R Pelz*

**Awards/Honors:**

1999 **Good Quality Thesis Award**  
 Graduate School, Kasetsart University

2007 **Best Speaker Award**  
 National Mapping and Geoinformatics 2007 Congress  
 Geo-Informatics and Space Technology Development Agency

**Present Position:**

Associate Professor / Dean of the Graduate School / Advisory Board to the Minister of Justice

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**Working Experience:****1997 - 1999:**

*Research assistant in INDFOSUS project (Developing Ground and Remotely Sensed Indicators of the Sustainability of Tropical Forest Exploitation Systems in South – East Asia) financed by European Commission.*

**1999 - 2000:**

*Researcher in Forest division, Huai Hong Khrai Royal Development Study Center, Chiangmai, Thailand.*

**30<sup>th</sup> October 2000 - 2<sup>nd</sup> December 2007:**

*Lecturer in Department of Forest Management, Faculty of Forestry, Kasetsart University, Bangkok: research and teaching in forest inventory, remote sensing and forest management information system.*

**30<sup>th</sup> August 2007 - 30<sup>th</sup> March 2010:**

*Associate Department Head of Forest Management, Faculty of Forestry, Kasetsart University.*

**3<sup>rd</sup> December 2007 - 24<sup>th</sup> November 2020:**

*Assistant Professor in Department of Forest Management, Faculty of Forestry, Kasetsart University, Bangkok: research and teaching in forest inventory, remote sensing and forest management information system.*

**15<sup>th</sup> September - 29<sup>th</sup> October 2009:**

*Re-Invitation Programme (DAAD) Department of Forest Biometry, Faculty of Forest and Environmental Sciences, University of Freiburg.*

**1<sup>st</sup> April 2010 - 30<sup>th</sup> March 2014:**

*Associate Dean for Information Technology, Faculty of Forestry, Kasetsart University.*

**20<sup>th</sup> - 29<sup>th</sup> November 2011:**

*Sustainability and Risk Management - Approach for Integrated Solution of Global Environmental Issues and Disaster, Yokohama National University, Japan.*

**2<sup>nd</sup> April - 28<sup>th</sup> December 2012**

*National Consultant for Project “Strengthening of the National Forest Information System”.*

**16<sup>th</sup> December 2014 - 31<sup>th</sup> January 2017:**

*Associate Department Head of Forest Management, Faculty of Forestry, Kasetsart University.*

**16<sup>th</sup> May 2016 - 31<sup>th</sup> January 2017:**

*Assistant to the Dean of the Graduate School, Kasetsart University.*

**1<sup>st</sup> February 2017 - 25<sup>th</sup> May 2024:**

*Associate Dean of the Graduate School, Kasetsart University.*

**25<sup>th</sup> November 2020 - Present:**

*Associate Professor in Department of Forest Management, Faculty of Forestry, Kasetsart University, Bangkok: Research and Teaching in Forest Inventory, Remote Sensing and Forest Management Information System.*

**15<sup>th</sup> January 2023 - 8<sup>th</sup> July 2024:**

*Thailand-based expert for Project “Assessment of the Potential Impact of the Proposal for an EU Regulation to Prevent Deforestation-products Originating from Thailand to Enter the EU Market”.*

**28<sup>th</sup> September 2023 - Present:**

*Advisory Committee to the Minister of Justice.*

**26<sup>th</sup> May 2024 - Present:**

*Dean of the Graduate School, Kasetsart University.*

**Completed Project:**

*2009: Land Use Classification in Mangrove Area in 2009. Funded by Department of Marine and Coastal Resources.*

*2011: Analysis of Vegetation Indices for Forest Types Classification in Thailand. Funded by Kasetsart University Research and Development Institute.*

*2012: Strengthening of the National Forest Information System. Funded by International Tropical Timber Organization (ITTO).*

*2013: Thailand Forest Area Classification during 2012 – 2013. Funded by Royal Forest Department.*

*2014: Thailand Forest Area Classification during 2013 – 2014. Funded by Royal Forest Department.*

*2014: Land Use Classification in Mangrove Area in 2014. Funded by Department of Marine and Coastal Resources.*

2015: *Thailand Forest Area Classification during 2014 – 2015. Funded by Royal Forest Department.*

2016: *Thailand Forest Area Classification during 2015 – 2016. Funded by Royal Forest Department.*

2017: *Thailand Forest Area and Forest Types Classification during 2016 – 2017. Funded by Royal Forest Department.*

2018: *Thailand Forest Area and Forest Types Classification during 2017 – 2018. Funded by Royal Forest Department.*

2019: *Thailand Forest Area Classification during 2018 – 2019. Funded by Royal Forest Department.*

2020: *Thailand Forest Area Classification in 2020. Funded by Royal Forest Department.*

2021: *Thailand Forest Area Classification in 2021. Funded by Royal Forest Department.*

2022: *Thailand Forest Area Classification in 2022. Funded by Royal Forest Department.*

2023: *Thailand Forest Area Classification in 2023. Funded by Royal Forest Department.*

2023: *Assessment of the Potential Impact of the Proposal for an EU Regulation to Prevent Deforestation-products Originating from Thailand to Enter the EU Market. Funded by European Union.*

#### **Ongoing Project:**

2024: *Thailand Forest Area Classification in 2024. Funded by Royal Forest Department.*

#### **Language Skills:**

	Reading	Speaking	Writing
Thai	5	5	5
English	5	5	4
German	5	4	5

#### **Membership of Professional Bodies:**

Remote Sensing and Geographic Information System Association of Thailand.

#### **Specific Countries Experiences:**

China, Germany, France, Switzerland, Austria, Italy, Japan.

#### **Recent Papers:**

- Pelz, D. R., S. Thammincha, P. Luebber, and W. Khunrattanasiri. 1999. Forest inventories in INDFORSUS. *In Proceedings of INDFORSUS Workshop 1999*. Ho Chi Minh City.

- Khunrattanasiri, W. 2002. Application of erosion bridge to indicate sustainable forest management. *In Proceedings of Soil and Water Conservation Congress*. Bangkok, Thailand.
- Khunrattanasiri, W. 2002. Estimation of soil loss by using erosion bridge: A guide to sustainable forest management. **Thai Journal of Forestry** 19-21: 65-83.
- Khunrattanasiri, W. 2005. Entwicklung von waldinventuren mit fernerkundung zur erfassung von waldressourcen. *In Proceedings of 15. und 16. Jahrestagung der Sektion Forstliche Biometrie und Informatik*. DVFFA - IUFRO - Die Grüne Reihe, Germany.
- Khunrattanasiri, W. 2005. **Development of Forest Inventory Techniques with Remote Sensing for Forest Resources Assessment**. Cuvillier Verlag, Göttingen, Germany.
- Khunrattanasiri, W. 2007. Application of LANDSAT-5 Thematic Mapper in forest inventory. *In Proceedings of National Mapping and Geoinformatics 2007 Congress*. Bangkok, Thailand.
- Khunrattanasiri, W. 2007. Application of internet map server for forest resource management. **Journal of Forest Management** 2: 108-113.
- Khunrattanasiri, W. 2009. ISO 19134 multimodal location based services for routing and navigation. *In Proceedings of National Mapping and Geoinformatics 2008 Congress*. Bangkok, Thailand.
- Khunrattanasiri, W. 2009. Classification of THEOS panchromatic image using object based image analysis. **Proceedings of National Mapping and Geoinformatics 2009 Congress**. Bangkok, Thailand.
- Pakat, A. and W. Khunrattanasiri. 2010. Signature Characteristics of Eucalyptus Cultivation Areas in the Northeast of Thailand. **Thai Journal of Forestry** 29(1): 33-42.
- Khongthone, C. and W. Khunrattanasiri. 2011. Application of geomatic data for proving land occupation and land use of Phetchaburi Rajabhat University, Pong Salod campus, Ban Lat district, Phetchaburi province. **Journal of Forest Management** 9: 29-45.
- Phomphoumy, K., W. Khunrattanasiri and S. Suksard. 2014. Application of adaptive cluster sampling for non-timber forest products assessment in training and model forest, Faculty of Forestry, National University of Laos. **Thai Journal of Forestry** 33(1): 16-46.
- Khunrattanasiri, W. and W. Arunpraparut. 2016. Analysis of vegetation indices for forest types classification in Thailand. **Journal of Remote Sensing and GIS Association of Thailand** 17: 384-398.
- Thianthai, P., W. Khunrattanasiri and W. Arunpraparut. 2017. Use of hyperspectral data from HJ-1A satellite for forest types classification in Yoddome wildlife sanctuary, Ubon Ratchathani province, pp. OSC 198-OSC 206. *In Proceedings of the 3<sup>rd</sup> NIRC, 45<sup>th</sup> National and 8<sup>th</sup> International Graduate Research Conference*. 2-3 December 2017, Nakhon Ratchasima Rajabhat University, Thailand.

- Kao-mim, N., W. Khunrattanasiri and P. Prasomsin. 2018. The study of the spectral signatures of each forest type in Khao Yai national park using hyperspectral imaging system data from HJ - 1A satellite, pp. 1722-1730. *In Proceedings of the 15<sup>th</sup> KU – KPS National Conference*. Kasetsart University Kamphaeng Saen Campus, Nakhon Pathom, Thailand.
- Katong, R., W. Khunrattanasiri and S. Suksard. 2018. Prediction of above ground carbon sequestration on reforestation using Sentinel-2 imagery data in Mae Moh Mine, Lampang province, pp. 1756-1763. *In Proceedings of the 15<sup>th</sup> KU - KPS National Conference*. Kasetsart University Kamphaeng Saen Campus, Nakhon Pathom, Thailand.
- Kheawjun, K., W. Khunrattanasiri and A. Pattaratuma. 2018. Application of CLUE-S model and Landsat satellite imagery for land use classification at Sakaerat biosphere reserve, Nakhon Ratchasima province, pp. 7-38-7-49. *In Proceedings of the 22<sup>th</sup> Forestry Conference National Forestry Reform*. Kasetsart University, Bangkok, Thailand.
- Phatchaya, S., W. Khunrattanasiri and S. Suksard. 2018. Appropriate scale use of object - based image analysis technique for forest types classification in Khao Yai national park, pp. 1772-1779. *In Proceedings of the 15<sup>th</sup> KU - KPS National Conference*. Kasetsart University Kamphaeng Saen Campus, Nakhon Pathom, Thailand.
- Jittavani, P., W. Khunrattanasiri and S. Kitisin. 2018. Job tracking and assessment system design and implementation with UI/UX and agile methodology. pp. 59-62. *In Proceedings of the IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering*. Pattaya, Thailand.
- Khunrattanasiri, W. 2020. **Satellite Imagery for Forest Resource Survey**. Department of Forest Management Faculty of Forestry Kasetsart University, Bangkok.
- Trisurat, Y., W. Eiadthong, W. Khunrattanasiri, S. Saengnin, A. Chitechote and S. Maneerat. 2020. Systematic forest inventory plots and their contribution to plant distribution and climate change impact studies in Thailand. **Ecological Research** 35: 724-732.
- Khunrattanasiri, W. 2020. Comparative study on CA-Markov model and CLUE-S model for land use changed prediction in national reserved forest, Nan province. **Journal of Applied Science** 19(2): 78-100.
- Au-ngern, R., P. Diloksumpun and W. Khunrattanasiri. 2021. Application of geoinformatics data to analyze suitable area for national reserved forest establishment at Koh Larn, Bang Lamung district, Chon Buri province. **Thai Journal of Forestry** 40(2): 1-16.
- Siri-on, K., P. Diloksumpun and W. Khunrattanasiri. 2021. Land use classification technique from unmanned aerial vehicle orthophoto. **Thai Journal of Forestry** 40(2): 95-110.

- Hochuei, P. and W. Khunrattanasiri. 2022. itthesis: tools for thesis submission procedure transformation from analog to digital under context of the Graduate School, Kasetsart University. pp. 120-126. *In Proceedings of the International Teacher Education Network Conference: New Paradigms in Education in the Post-COVID-19 Era (ITEN2022)*. Bangkok, Thailand.
- Khunrattanasiri, W. 2022. Application of remote sensing vegetation indices for forest cover assessments, pp. 153-166. *In* M. N. Suratman, eds. **Concepts and Applications of Remote Sensing in Forestry**. Springer, Singapore. <https://doi.org/10.1007/978-981-19-4200-6>.
- Sriarkarin, S., S. Suksard, W. Khunrattanasiri, W. Jundang, N. Junkerd and S. Tuklang. 2022. Yield Assessment and Financial Return Analysis of 6 Years Old *Acacia mangium* Willd. at Wang Nam Khiao Forestry Research and Student Training Station, Nakhon Ratchasima Province. **Thai Journal of Forestry** 41(2): 63-74.
- Khunrattanasiri, W. and Y. Thoenglom. 2023. Prediction of Teak Volume Using Sentinel-2 Satellite Imagery Data at Thong Pha Phum Plantation, Kanchanaburi Province. **Journal of Agricultural Research and Extension** 40(1): 130-145.
- Khunrattanasiri, W., T. Boonyarit and J. Srikongruk. 2023. Study of Land Use Changes Using Landsat Satellite Image Data in Bo Luang Subdistrict, Hot District, Chiang Mai Province. **Journal of Science and Technology, Rajabhat Maha Sarakham University** 6(2): 21-33.
- Khunrattanasiri, W., A. Amarakul, L. Rianthakool and T. Hutayanon. 2023. Above-ground Carbon Storage Estimation of a Reforestation Site at Mae Moh Mine, Lampang Province, Using Sentinel-2 Satellite Data. **Thai Journal of Forestry** 42(2): 113-122.
- Audomsin, S., A. Sitthi and W. Khunrattanasiri. 2024. Application of Remote Sensing for Study Forest Encroachment in Tai Rom Yen National Park, Surat Thani Province. **Thai Journal of Forestry** 43(2): xx-xx.
- Khunrattanasiri, W., A. Amarakul, L. Rianthakool and T. Hutayanon. 2024. Comparative study of Landsat 9 and Sentinel-2 satellite data for above-ground carbon sequestration estimation at Mae Moh mine reforestation site, Lampang province, Thailand. **Agriculture and Natural Resources** 58 (2): 175-182.
- Khunrattanasiri, W., J. Srikongruk, S. Suksard and V. Domrongsutsiri. 2024. Comparison of Land Use Classification Using Landsat 9 Data in the Eastern Economic Corridor. **Thai Journal of Forestry** 43(2): xx-xx.