

# CURRICULUM VITAE

## PERSONAL DATA:

**First Name:** Attawut    **Last Name:** Nardkulpat

**Identification Number :** #####

**Office Address:**

Faculty of Geoinformatics ,Burapha University , 169 Long-Hard Bangsean Road,  
Saen Sook Sub-district, Mueang District, Chonburi (Postal code :20131)

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**Email :** attawut@buu.ac.th

**Date of Birth:** 22/November/1990

**Gender:** male

**Country of Origin:** Thailand

**Nationality:** Thai

**Personal Website :** <https://attawutn.github.io/>

## EDUCATION:

**Ph.D (Geoinformatics),** Srinakharinwirot University, Bangkok , Present

**Dissertation (Draft) :** An Application Of Deep Learning For Rice Transplantation Stage  
Classification By Using Synthetic Aperture Radar (SAR) Time Series Data

**MSc. (Geoinformatics),** Burapha University, Chon Buri, Thailand , 2017

**Thesis :** Measuring Coseismic Displacement Using DInSAR Techniques For 5 MAY 2014,  
Chiang Rai Province, THAILAND

**Fellowship and research support by Faculty of Geoinformatics, Burapha University &  
Geo-Informatics and Space Technology Development Agency**

**BSc. (Geography),** Burapha University, Chon Buri, Thailand , 2013

**Project:** The Application of Geoinformatics for study runoff quantity using hydrologic  
model (SWAT) Case study: Pha Prong, Sa Kaeo Province

**President of the Faculty of Geoinformatics Student Club, 2011**

**Presenting at WEBCON2, 33rd Asian Conference on Remote Sensing 2012 (ACRS  
2012),** 26-30 November 2012, Pattaya, Thailand

**Presenting at The 5th Thai Student Symposium on Geography and Geoinformatics,**  
25 – 26 October 2012 Department of Geography, Faculty of Liberal Arts, Thammasat University, Thailand

## **WORK HISTORY:**

### **Burapha University :**

**Secretary of the Commission of Research and Academic Services,** Faculty of Geoinformatics,  
Burapha University, Chon Buri, Thailand, 2020 - Present

**Coordinator,** Thailand Geography Olympiad Burapha University Center, 2018 - 2021

**Research Officer,** Faculty of Geoinformatics, Burapha University, Chon Buri, Thailand,  
2013 - Present

**Coordinator,** Eastern Region Center Space Technology and Geo-Informatics, Burapha University,  
Chon Buri, Thailand, 2013 – 2018, Supervisor: Dr. Supan Karnchanasutham (Acting Director)

**Assistant Researcher,** Eastern Region Center Space Technology and Geo-Informatics, Burapha  
University, Chon Buri, Thailand, 2012 – 2013, Supervisor: Associate Professor Autcha K.Buakesorn  
(Acting Director)

### **Ricult:**

**Remote Sensing Engineer,** March - July 2021 (Part-time)

### **FICT Associate Co., Ltd.:**

**GIS Consultant,** December 2020 - August 2021

## **TRAINING AND PROFESSIONAL DEVELOPMENT:**

**Generative Adversarial Networks (GANs) Specialization,** Coursera, Online, 2020

**Natural Language Processing Specialization** Coursera, Online, 2020

**DeepLearning.AI Tensorflow Developer.** Coursera, Online, 2020

**Deep Learning Specialization.** Coursera, Online, 2020

**MICROSOFT TECHNOLOGY ASSOCIATE : Introduction to Programming using Python.**  
MICROSOFT , 2019

**Python for Data Science.** Eastern Software Park, Burapha University, 2019

**Machine Learning by Andrew Ng.** Stanford University, Online, 2019

**Statement of Accomplishment For Python Programming Track.** DataCamp, Online, 2019

**Statement of Accomplishment For Data Scientist with R Track.** DataCamp, Online, 2019

**Intro to Data Analytics and Big Data.** Chulalongkorn University, Online, 2019

**ECHOES IN SPACE: Introduction to Radar Remote Sensing.** Eo-college, European Space Agency (ESA), Online, 2017

**Geo-informatics Technology for Environmental and Disaster Monitoring,** Sirindhorn Center for Geo-informatics (SCGI), GISTDA, Space Krenovation Park, Chonburi, Thailand, 28 – 30/10/2015

**Atmospheric Correction of Earth Observation Data for Environmental Monitoring: Theory and Best Practices. COSPAR Capacity Building Workshop.** GISTDA Training Center, Geo-Informatics and Space Technology Development Agency (Public Organization), Bangkok, Thailand, 4 – 8/11/2013

## **TECHNICAL SKILLS AND COMPETENCE:**

### **Program experience**

- Office: Word, Excel, PowerPoint

- GIS: ArcGIS, QGIS

- Remote Sensing (Radar & Optical) : ENVI, SNAP , DORIS , StaMPS , GAMMA , SARSCAPE

**Front-end Developer:** HTML5 & CSS , JavaScript, WordPress

**Web Administrator:** <http://tice.buu.ac.th> , <http://geo.buu.ac.th> , <http://geolympic.buu.ac.th>,  
<http://greentroknong.buu.ac.th>, <http://gisclms.buu.ac.th/>

**Operation Systems:** Windows , Linux, OS X

**Programming Skill:** Python, R, MATLAB/OCTAVE

**Machine Learning & Deep Learning packages:** Sklearn, TensorFlow, Keras, caret

**Cloud Computing Skill:** Amazon Web Service, Google Cloud Platform

## **WORKING PROJECT:**

Pattama Phodee , Kitsanai Charoenjit, Karnjana Hrimpeng, Siam Lawawirojwong, Nisakorn Wiwekwin and **Attawut Nardkulpat**. 2022. The development of big geodatabase for resource and environment using drone and earth observation satellite. Faculty of Geoinformatics, Burapha University (Funding from Fundamental Fund, National Research Council of Thailand: NRCT)

Narong Pleerux and **Attawut Nardkulpat**. 2021. Sentiment analysis of tourism from social medias under COVID-19 situation. Faculty of Geoinformatics, Burapha University (Funding from Faculty of Geoinformatics, Burapha University)

Pattama Phodee , Anuphao Aobphet , Prasit Maksin and **Attawut Nardkulpat**. 2017. Displacement Monitoring of Mae Chan fault, Chiang Rai Province using Time-series InSAR Techniques. Faculty of Geoinformatics, Burapha University (Funding from National Research Council of Thailand: NRCT)

Supan Karnchanasutham, **Attawut Nardkulpat**, Narathip Phengphit and Somkamon Rukweratham. 2017. The Application of Geo-information Technology to Delineate Agricultural Maps of Parcel from Satellite Data, Ban Bung District, Chon Buri Province. Eastern Region Center Space Technology and Geoinformatics , Burapha University (Funding From Geo-Informatics and Space Technology Development Agent (Public Organization))

Supan Karnchanasutham, **Attawut Nardkulpat**, Narathip Phengphit ,Thipatai Khamchan, Somkamon Rukweratham and Phannika Aengpan. 2016. The Application of Geo-information Technology to Delineate Agricultural Maps of Parcel from Satellite Data, Bang Lamung District, Chon Buri Province. Eastern Region Center Space Technology and Geoinformatics , Burapha University (Funding From Geo-Informatics and Space Technology Development Agent (Public Organization))

Supan Karnchanasutham, **Attawut Nardkulpat**, Narathip Phengphit and Thipatai Khamchan. 2015. The Application of Geo-Information Technology to Delineate Agricultural Maps of Parcel from Satellite Data, Muang District, Chon Buri Province. Eastern Region Center Space Technology and Geoinformatics , Burapha University (Funding From Geo-Informatics and Space Technology Development Agent (Public Organization))

Supan Karnchanasutham , Wuthichai Kaewwan, Parin Lopittayakorn, Tanista Thai, Dawood Kalaes and **Attawut Nardkulpat**. 2015. Integration Plan for Water Resource Management and Development using Geoinformation Technology in Chon Buri Province, THAILAND. Faculty of Geoinformatics, Burapha University (Funding from Chon Buri Provincial office)

**Attawut Nardkulpat** , Dawood Kalaes and Supan Karnchanasutham. 2015. The Application of Geo-information Technology to Classify the Area of Para Rubber and Delineate Maps of Parcel from Satellite Data, Trat Province. Eastern Region Center Space Technology and Geoinformatics , Burapha University (Funding From Geo-Informatics and Space Technology Development Agent (Public Organization))

**Attawut Nardkulpat** and Supan Karnchanasutham. 2014. The Classification of mangrove vegetation, Using Multispectral image Chantaburi province. Eastern Region Center Space Technology and Geoinformatics, Burapha University (Funding From Geo-Informatics and Space Technology Development Agent (Public Organization))

## **TEACHING EXPERIENCE:**

**Teaching Assistant: 876336 Geographic Information System 3 (Web GIS): Bachelor's degree,** Faculty of Geoinformatics, Burapha University, Chon Buri, Thailand, 2015

**Teaching Assistant: 876132 Script Programming (Web application with JavaScript) : Bachelor's degree,** Faculty of Geoinformatics, Burapha University, Chon Buri, Thailand, 2015

**Lecturer & Practice: Introduction ESA Sentinel Application Platform (SNAP) and Surface Subsidence Monitoring with SNAP.** SAR data application for measuring Mae Chan fault displacement training workshop. 19 - 21 June 2017. Chiang Rai Rajabhat University, Chiang Rai, Thailand, 2017

**Lecturer & Practice: Introduction to Remote Sensing & Spectroradiometer (Remote Sensing 1): Bachelor's degree,** Faculty of Geoinformatics, Burapha University, Chon Buri, Thailand, 2018

**Lecturer & Practice: SAR Remote Sensing and Its Applications (87852061 : Remote Sensing for Master Degree, English Taught, Teach instead of Dr. Pattama Phodee),** Faculty of Geoinformatics, Burapha University, Chon Buri, Thailand, 2018

**Lecturer & Practice: AGRICULTURE MONITORING WITH SAR,** Office of Agricultural Economics, 24 December 2018. Topland Hotel, Phitsanulok, Thailand, 2018

**Lecturer & Practice: Urban Planning and Geographical Information System (GIS),** The Office of Disease Prevention and Contrpl 6, 6 - 8 Febuary 2019. The Office of Disease Prevention and Contrpl 6, Chon Buri, 2019

**Lecturer & Practice: Introduction to Remote Sensing & Spectroradiometer (Remote Sensing 1): Bachelor's degree,** Faculty of Geoinformatics, Burapha University, Chon Buri, Thailand, 2019

**Lecturer: Geospatial #Trend,** Department of Geography, Faculty of Social Science, Srinakharinwirot University, Bangkok, 2019

**Lecturer & Practice: Geospatial Analysis,** Trat Provincial Public Health Office, Trat, 2020

**Teaching Assistant: 87633759 Microwave Remote Sensing: Bachelor's degree,** Faculty of Geoinformatics, Burapha University, Chon Buri, Thailand, 2020

**Lecturer & Practice: 87651260 Applications of Geographic Information System: Master's degree (Natural Language Processing, 4 Week)**, Faculty of Geoinformatics, Burapha University, Chon Buri, Thailand, 2020

**Lecturer & Practice: 87613259 Scripting Language: Bachelor's degree (An Introduction to Machine Learning, 4 Week)**, Faculty of Geoinformatics, Burapha University, Chon Buri, Thailand, 2020

**Lecturer & Practice: 87657260 Geoinformatics for Natural Resources Management: Master's degree (Land-Use Land-Cover Classification by Machine Learning, 2 Week)**, Faculty of Geoinformatics, Burapha University, Chon Buri, Thailand, 2020

**Lecturer & Practice: 87651260 Applications of Geographic Information System: Master's degree (Natural Language Processing, 3 Week)**, Faculty of Geoinformatics, Burapha University, Chon Buri, Thailand, 2021

**Lecturer & Practice: PROGRAMMING FOR GEOGRAPHER: Bachelor's degree (Introduction of GeoPandas & Scikit-learn, 2 Week)**, Faculty of Social Sciences, Srinakharinwirot University, Bangkok, Thailand, 2021

**Lecturer & Practice: 87657260 Geoinformatics for Natural Resources Management: Master's degree (Land-Use Land-Cover Classification by Machine Learning & Deep Learning, 3 Week)**, Faculty of Geoinformatics, Burapha University, Chon Buri, Thailand, 2021

**Lecturer & Practice: Urban Planning and Geographical Information System (GIS)**, The Office of Disease Prevention and Control 6, 6 - 8 February 2019. The Office of Disease Prevention and Control 6, Chon Buri, 2019

**Lecturer & Practice: Spatial Database: Bachelor's degree (PostgreSQL and PostGIS).** 19 - 20 November 2020, Faculty of Social Sciences, Srinakharinwirot University, Bangkok, Thailand, 2021

## **INTERVIEWS**

**GeoSWU TALKS Theme I: GeoSWU for Future Career** with Dr.Sathaporn Monprapussorn, 4 July 2020

## **PUBLICATION**

Wuttichai Boonpook, Yumin Tan, **Attawut Nardkulpat**, Kritanai Torsri, Peerapong Torteeka, Patcharin Kamsing, Utane Sawangwit, Jose Pena, and Montri Jainan. Under review. Deep Learning Semantic

Segmentation for Land Use and Land Cover types using Landsat. ISPRS International Journal of Geo-Information

Narong Pleerux, Narissara Aimkuy and **Attawut Nardkulpat**. Under review. The water consumption assessment of mangosteen: bottom-up approach. WSEAS Transactions on Environment and Development

Narong Pleerux and **Attawut Nardkulpat**. Under review. COVID-19 lockdown and decline in road accidents in Bangkok, Thailand. current applied science and technology

Wuttichai Boonpook, Yu-min Tan, Kritanai Torsri, Patcharin Kamsing, Peerapong Torteeka and **Attawut Nardkulpat**. Under review. PCL-PTD net: Parallel cross learning based pixel transferred deconvolutional network for building extraction in dense building areas with shadow. Journal of Selected Topics in Applied Earth Observations and Remote Sensing

Janjira Shimchart, Rorwan Chanchamsri, Thornchai Kumwat, **Attawut Nardkulpat** and Narong Pleerux. 2022. Sentiment of accommodation customers in Chon Buri from Social media. The 7th Nation Science and Technology Conference (NSCIC 2022), Surattani Rajabhat University, 10 – 11 March 2022

Sudapron Latang, Pattaraporn Tongkhamchum, Pantitar Somchuewiang, **Attawut Nardkulpat** and Narong Pleerux. 2022. Classification of Para Rubber Plantations Using Machine Learning Technique: Case Study in Wang Chan District, Rayong Province. The 7th Nation Science and Technology Conference (NSCIC 2022), Surattani Rajabhat University, 10 – 11 March 2022

Pnnamee Chuawong, Narong Pleerux, Ureerat Suksawatchon, Rungatith Buchain and **Attawut Nardkulpat**. 2020. Spatio-Temporal Data Mining of Tourist Attractions from Social Medias. The 17<sup>th</sup> National Kasetsart University Kampaeng Saen Conference, Nakhon Pathom, Thailand, 2 – 3 December 2020

Noppa Sivalak, Narong Pleerux, Pakawat Hasook, Mallika Khumtong, Chanapa Congsomsuk, Pattaraporn Supprom and **Attawut Nardkulpat**. 2020. Applying Geographic Information System to Analysis of Road Accident Density in the Eastern Economic Corridor Area. The 17<sup>th</sup> National Kasetsart University Kampaeng Saen Conference, Nakhon Pathom, Thailand, 2 – 3 December 2020

Umaphorn Deeprhom, Narong Pleerux, Patipan Wangsan, Prapapan Yenjit, Gedsara Kittiwongsakda, Runchida Jaiklom and **Attawut Nardkulpat**. 2020. Creating Data Mining Of Maritime Attraction from Social Medias. The 17<sup>th</sup> National Kasetsart University Kampaeng Saen Conference, Nakhon Pathom, Thailand, 2 – 3 December 2020

Chotika Ratichaliyakul, Supan Karnchanasutham, Narong Pleerux, Kaew Nualchawee and **Attawut Nardkulpat**. 2019. The Evaluation of Suitable area for planting of Sangyod rice. Case study:

Ranode district, Songkhla province by using physical factor from Sangyod rice area, Pattalung province. King Mongkut's Agriculture Journal, Vol 37, No. 3, October – December 2019, ISSN: 0857-0108

Narong Pleerux and **Attawut Nardkulpat**. 2019. IDENTIFICATION OF ROAD ACCIDENT RECURRENCE IN SRI RACHA DISTRICT, CHON BURI PROVINCE. The 40th Asian Conference on Remote Sensing (ACRS 2019) , Korea, 14 – 18 October 2019

**Attawut Nardkulpat** and Narong Pleerux. 2019. Applying GIS to Analyze Road Accidents in Bang Lamung District, Chon Buri Province, Thailand. Journal of RESGAT, Vol.20 Special Issue, ISSN: 1513-4261

**Attawut Nardkulpat** and Supan Karnchanasutham. 2017. The Classification of Mangrove Vegetation, Using Multispectral Image in Chanthaburi Province. Journal of Geoinformation Technology of Burapha University, Year 2, Vol 4, July – Dec 2017, ISSN: 2465-4469

Chotika Raticchaliyakul, Supan Karnchanasutham, Narong Pleerux, Kaew Nualchawee and **Attawut Nardkulpat**. 2017. Extraction Rice Field using Time-series Sentinel-1 : Study case Ranode District, Songkhla Province. Journal of RESGAT, Vol.18, No.18, May - Dec 2017, ISSN: 1513-4261

**Attawut Nardkulpat**, Pattama Phoeedee, Supan Karnchanasutham, Kaew Nualchawee and Preesan Rakwatin. 2017. Using Differential InSAR Technique for Coseismic Displacement study of Mw 6.3 Chiang Rai Earthquake, Thailand. Journal of RESGAT, Vol.18 Special Issue, ISSN: 1513-4261 (Master's degree claim)

**Attawut Nardkulpat**, Ratthaphum Khemchaloem and Phurith Meeprom. 2012. Coastal Erosion in Eastern Thailand. WEBCON2 at 33rd Asian Conference on Remote Sensing 2012 (ACRS 2012), Chon Buri, Thailand, 26 – 30 November 2012