

PARINDA PANNOON

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[🌐 www.linkedin.com/in/parinda-pannoon-62ab5b234](https://www.linkedin.com/in/parinda-pannoon-62ab5b234) [🔗 https://github.com/parindapannoon](https://github.com/parindapannoon)
📍 Salzburg 5020, Austria. (Relocation is possible)

KEY COMPETENCIES

Programming

- Python
- Matplotlib
- Plotly
- Geopandas
- HTML/CSS/JS
- Machine Learning

Database

- PostgreSQL
- SQL
- PostGIS
- GeoServer

GIS/Remote sensing

- ArcGIS Pro
- ArcGIS Online
- QGIS
- Google Earth Engine
- Google Earth Pro
- Trimble eCognition

Web mapping

- Folium
- Leaflet
- OpenLayers JS
- Mapbox API
- Google Maps API
- Carto
- MapTiler Cloud
- Flask

Data visualization

- PowerBI
- ArcGIS Dashboard
- ArcGIS Story map
- Streamlit

3D modelling

- Blender
- 3D Builder
- SketchUp
- Cesium

Cartographic design

- Adobe Illustrator
- Adobe Photoshop
- Inkscape

Other

- Git
- Docker

PROFESSIONAL EXPERIENCE

Geospatial Intern

May 2023 - July 2023

Ubicube GmbH

- Performing geospatial analysis including map visualizations and statistics.
- Testing machine learning models for building footprints extraction models.
- Performing the analysis of flood hazard insights for improving the quality of real estate valuations.
- Creating maps of flooding levels using ArcGIS Pro.

GIS Specialist

Oct 2020 - Sep 2022

Research Unit, Chulalongkorn University

- Conduct research into the project of Evaluation of Sedimentation Impacts on a Reservoir.
- Make geoprocessing models by using Model builder in ArcGIS and ArcPy.
- Perform image classification for analyzing land use and land cover changes.
- Compile and update spatial data files from relevant government agencies.
- Involve the project of Toponym distributions in the part of spatial analysis.

Cartographer

June 2021 - Oct 2021

Mr. Kasidi Khunwipulsilkul, PhD

- Carry out spatial analysis of buildings density and areas using ArcGIS software.
- Conduct research into Bangkok city plan for creating maps.
- Classify land use and building types.
- Perform land use and building density maps by using ArcGIS.
- Summarize spatial statistics to outline results.

EDUCATION

Master's Degree in Copernicus Master in Digital Earth

Oct 2022 - July 2024

- Paris Lodron University of Salzburg, Austria
- Palacký University Olomouc, Czech Republic

Bachelor of Arts, Geography and Geoinformatics | 2nd Class Honors

July 2016 - June 2020

- Chulalongkorn University, Thailand

HONOURS AND AWARDS

EY Open Science Data Challenge 2024. (Top ten global semi-finalist) **May 2024**
Organization: EY (Ernst & Young)
Topic: Strom damage assessment, object detection

ML4Earth2023 Physics-aware machine learning. (The winner 1st Place) **Sep 2023**
Organization: Technical University of Munich(TUM) Data Science in Earth Observation
Topic: Topic: Using physics-aware machine learning to model and forecast flood events

Innovation Solving PM2.5 Problem Hackathon. (The winner 3rd Place) **Sep 2023**
Organization: YouTHful Issue
Topic: Innovation for solving PM2.5 in Bangkok

Foresight DRM: Disaster Mapping Hackathon 2023. (The winner 2nd Place) **Apr 2023**
Organization: Global Geo-Intelligence Solutions Ltd.
Topic: Find a solution with a positive impact on hurricane management in the Bahamas.

ML4Earth Hackathon 2022 (The winner, 3rd place) **Nov 2022**
Organization: Technical University of Munich(TUM), Future Lab
Topic : Crop yield prediction with remote sensing and machine learning and exploring relations with explainable AI.

PUBLICATION

An Analysis and Assessment of Water Adequacy for Economic Crop Cultivation in Rayong, Thailand

This research evaluates the adequacy of rainfall and irrigation for economic crop cultivation in Rayong province, Thailand using GIS.

PROJECTS

Implementation of Artificial Intelligence for Creating Maps | Master's thesis

- Assessing the capability of AI-generated maps ChatGPT-4, and developing by Prompt Engineering.
- Comparing AI's map quality with a traditional cartographic technique from ArcGIS Pro.
- Executing maps by Python-Geovisualisation Libraries (e.g., Folium, Geopandas).

Databases backend for a city festival | Semestral project

- Serve as database backend to organise the facilities, positions, opening times, employee of the festival.
- Creating geodata in PostgreSQL and PostGIS which enables to be query.
- Generate an entity relationship diagram as a physical model that illustrates how entities relate to each other as well as data type and keys within a festival model

Web map application, hurricane track visualization | Semestral project

- Creating hurricane web map using Folium integrated with Flask web application framework.
- Managing hurricane track with timestamps by using Folium "TimestampsGeoJson".
- Developing geolocation of hurricane formation(date and time) and emergency routes by inserting locations.

LANGUAGE SKILL

- **English:** Proficient
- **Spanish:** Basics
- **Thai:** Native