EDUCATION AND TRAINING

MASTER OF SCIENCE

MSc Environmental Hazards and Risks Management, Université Côte d'Azur
September 2021 - present -- Nice, France

Theoretical courses: Earthquake, Agricultural Risks, Flooding, Forest Fires, Mass Movement, Land Use and Cover Change, Ecology, Climate Change, etc.

Technical courses: Mathematical modelling (Python), Statistics (R), GIS & Remote Sensing (ArcGIS Pro), Soil erosion modelling (TerrSet), Agent-based modelling (GAMA platform), Hydrological modelling (HEC-HMS), Statistics of extreme events (R), etc.

BACHELOR OF ENGINEERING

Department of Artificial Intelligence, School of Computer Science and Systems Engineering, Kyushu Institute of Technology
April 2016 - March 2018 -- Iizuka, Japan

Thesis : The Proposal of Co-occurrence Shape Feature for LIDAR-based Pedestrian Recognition (LIDARを用いた歩行者検出のための共起形状特徴量の提案)

Detail : Extracting features from raw 3D point cloud data, processing the data (clustering with K-nearest neighbor, Principal Component Analysis, etc) and classifying the object (pedestrian) using Support Vector Machine (SVM). The project was done using MATLAB. A small project using Histogram of Oriented Gradient (HOG) feature was done prior to research project.

DIPLOMA

Information Processing Course, Seifu Institute of Information Technology
April 2014 - March 2016 -- Osaka,Japan

Graduation project : Scheduling Application with voice recognition (Windows application)

Detail : A calendar application to which user can add or ask schedules using voice command. Platform used was Microsoft Visual Studio and languages used were C#, SQL , XML, SSML.

JAPANESE LANGUAGE
Osaka Japanese Language Education Center
April 2013 - March 2014 -- Osaka,Japan

LANGUAGE SKILLS

Indonesian (Native)

English
 IELTS 7.5 (taken in 2020)

 Listening : 7.5 / C1
 Reading : 7.5 / C1
 Speaking : 7 / C1
 Writing : 7 / C1

Japanese
 JLPT N1 (taken in 2015)

 Listening : C1
 Reading : B2
 Speaking : C1
 Writing : C1

HONOURS AND AWARDS

- **French Government Scholarship Holder (BGF)**
  August 2021 - present
  Master's degree scholarship

- **Japanese Government (MEXT) Scholarship Student**
  April 2013 - March 2018
  Scholarship covering Japanese language school, vocational school, and Bachelor's degree

- **Microsoft Japan Award**
  February 2016
  Award given for the graduation project of the vocational school

VOLUNTEERING

- **Python foundation recap tutor**
  ReDI School of Digital Integration
  October 2022 - December 2022

INTERNSHIP
INRIA, February 2023 - present -- Sophia Antipolis, France

- Research regarding Building Change Detection

INTERNSHIP
ACRI-ST, April 2022 - June 2022 -- Sophia Antipolis, France

- Build a pipeline for Olive Groves classification
- Optimize Machine Learning-based classification model
- Perform satellite imagery acquisition and simple spectral analysis

Technical Experience
- Data : Sentinel-2
- Programming language : Python
- Library : PyTorch, Orfeo Toolbox, Gdal, Rasterio, Geopandas, Scikit-learn, etc
- Environment : Ubuntu 20.04, GitLab
- Software : QGIS

AI (ARTIFICIAL INTELLIGENCE) ENGINEER
Nodeflux, June 2019 - July 2021 -- Jakarta, Indonesia

- Manage image data (collection, annotation, quality assessment)
- Work with AI model or mathematical model (model training, finetuning and hyperparameter optimization)
- Research and experiment on methods and architectures
- Write technical and research reports
- Design and build pipelines which utilize AI model to provide solutions to real-world problems such as Surveillance (Vehicle detection, Social Distance Recognition, License Plate Recognition), Optical Character Recognition, etc

Technical Experience
- Programming language : Python, C
- Framework, library : Darknet, PyTorch, OpenCV, Numpy, Pandas, etc
- Environment : Ubuntu 18.04, Docker, GitLab
- Server : AWS, GCP

INSTRUCTOR
KodeKiddo, November 2018 - May 2019 -- Medan, Indonesia

- Assist children to learn computer programming
- Help children understand the concept of algorithm and computational thinking
- Evaluate children's performance
- Take part in promotional events such as programming workshops
- Help making curriculum for short courses such as holiday program

PROGRAMMER (PART TIME)
Infoact, Inc., September 2015 - February 2016 -- Osaka, Japan

- Help to design websites using HTML/CSS and JavaScript
- Some additional tasks include making a simple part of android application and iOS application (using Swift)