

Cesar Aybar

HYDROLOGY · DATA ANALYTICS

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“Make the change that you want to see in the world.”

Education

UNMSM (National University of San Marcos)

Lima, Peru

B.ENG. IN GEOGRAPHICAL ENGINEERING

Mar. 2011 - Jan. 2015

- Finished inside the fifth upper

Experience

AguaAndes - PEER project

Lima, Peru

ASSISTANT RESEARCH

Apr. 2014 - Mar. 2015

- Mapping of high-altitude wetlands located in the upper Rimac Catchment
- Development of modelbuilder in ArcGIS for spatial analysis tasks

National Water Authority of Peru

Lima, Peru

JUNIOR HYDROLOGIST

Jan. 2015 - Apr. 2015

- Development of Python script for run the STREAM hydrology model in several catchments in Peru

National Service of Hydrology and Meteorology of Peru

Lima, Peru

ASSISTANT RESEARCH

Apr. 2015 - Dec. 2018

- Construction of the first Gridded Rainfall Dataset (PISCOp) freely available for Peru
- Development of the mapping scripts used in the book: Climate and extreme events from the Central Altiplano of Peru and Bolivia
- Author of the methodology for mapping Life Zones in Peru, in coordination with the Peruvian ministry of the environment
- Hydrologist task automation using R and Python

Freelance

Lima, Peru

FREELANCE-DATA ANALYST

Jan. 2019 - Present

- Manipulating, cleansing and processing sensible data using Python
- Responsible for loading client data
- Support for implementing CI/CD pipelines
- Carrying out specific data processing and statistical techniques

Capabilities & Skills

Languages

PYTHON, R, JAVASCRIPT, C++ AND HASKELL

Software

LINUX(DEBIAN), QGIS, GRASS AND SAGA GIS

Tools:

RSTUDIO, EMACS AND ECLIPSE

Reproducible Research:

GIT, SVN, DOCKER, KUBERNETES

Capabilities

DEEP LEARNING FOR COMPUTER VISION, GEOSTATISTIC, SPATIAL DATA SCIENCE & BIG DATA

Projects

Deep Learning

MONITORING CROP AREAS IN AREQUIPA USING TENSORFLOW AND GOOGLE EARTH ENGINE - [LINK](#)

rgee

R BINDING LIBRARY FOR GOOGLE EARTH ENGINE - [LINK](#)

pal

A PALETTE SEARCH ENGINE - [LINK](#)

EEwPython

A SERIES OF JUPYTER NOTEBOOK TO LEARN GOOGLE EARTH ENGINE WITH PYTHON- [LINK](#)

eecmip5

DOWNLOAD AND MANIPULATE CMIP5 CLIMATE SIMULATIONS - [LINK](#)

PowerBI

DASHBOARD FOR GEOLOGICAL EVALUATION REQUEST - [LINK](#)

Research

Aybar et.al, 2019

CONSTRUCTION OF A HIGH-RESOLUTION GRIDDED RAINFALL DATASET FOR PERU FROM 1981 TO THE PRESENT DAY.

HYDROLOGICAL SCIENCES JOURNAL [LINK](#)

Andrade et.al, 2018

CLIMATE AND EXTREME EVENTS FROM THE CENTRAL ALTIPLANO OF PERU AND BOLIVIA. [LINK](#)

Aybar et.al, 2018

PERUVIAN LIFE ZONE. [LINK](#)