Paul Efren

Hi! I'm a **Paul Efren Santos Andrade**. Plant Ecologist and data scientist. I am a Peruvian biologist from the Universidad Nacional de San Antonio Abad del Cusco - Peru



♣ Download CV as a PDF

CONTACT

- **∠** paulefrens@gmail.com
- paulefrensa.rbind.io
- github.com/PaulESantos
- **y** PaulEfrenSantos

SKILLS

- R
- Python
- ArcGIS
- **3** CSS
- Git وا
- SQL

AutoCAD

Photoshop

Made with the R package pagedown.

Source code available: github.com/PaulESantos/cv.

Updated: 2022-01-10.

EDUCATION

2018

MSC., IN ECOLOGY & ENVIRONMENTAL MANAGEMENT

Universidad Nacional San Antonio Abad

Ousco, Peru

2012 | 2008 B.S., BIOLOGY

Universidad Nacional San Antonio Abad

Q Cusco, Peru

☐ RESEARCH & DATA SCIENCE EXPERIENCE

2020

RESEARCH ASSISTANT

Universidad de Arizona Universidad de Bergen 🗣 Cusco, Peru

· Project:

Roles of inter and intra specific variability in the composition and functional diversity of high Andean plants of the Puna in the Manu National Park

2017 | 2016 RESEARCH ASSISTANT

University of Miami

Department of Biology

· Project:

Vulnerability to forest drought dominated by Bamboo: Detection with remote sensing and functional adaptation of the plant community in the Amazon - Andean gradient compared to forest without bamboo

2016

RESEARCH ASSISTANT

University of Oxford

GEM Global Ecosystems Monitoring Network

O Cusco, Peru

O Cusco. Peru

· Project:

RAINFOR - GEM: A project to understand the carbon balance in the Andean and Amazonian forests

2015 • RESEARCH ASSISTANT

The Open University

Q Cusco, Peru

Department of Environment, Earth & Ecosystems Centre for Earth, Planetary, Space & Astronomical Research

CEPSAR

· Project:

Evaluate the contribution of tree- stem CH4 and N2O emissions to the total ecosystem emissions from a range of tropical rainforests on the southeastern slopes of the Andes

2015 • RESEARCH ASSISTANT

University of Oxford

• Cairns QLD, Australia

Environmental Change Institute

University of Leeds James Cook University

· Project:

T- Forces: Changes of tropical forests in the land system

2015 • RESEARCH ASSISTANT

University of Miami

Ousco, Peru

Department of Biology

· Proiect:

2013

2010

Factors that influence the dynamics and location of the forest line between the forest and the Puna on Parque Nacional del Manu – Peru at Acjanaco, Qurqurpampa and Tres Cruces (4ta Period)

2014 • RESEARCH ASSISTANT

University of Oxford

♀ Oxapampa, Peru

Environmental Change Institute

University of Leeds

· Project:

T- Forces: Changes of tropical forests in the land system

2013 • RESEARCH ASSISTANT

University of Aberdeen

Q Cusco, Peru

Institute of Biological and Environmental Sciences

· Project:

Are tropical uplands regional hotspots of methane and nitrous oxide?

2013 • RESEARCH ASSISTANT

University of Oxford

Environmental Change Institute

Pontificia Universidad Católica del Perú

Instituto de Ciencias de la Naturaleza Territorio y Energía Renovables

Ousco, Peru

· CHAMBASA Project - CHallenging Attempt to Measure Biotic Attributes along the Slope of the Andes

2012 2011

RESEARCH ASSISTANT

University of Edinburgh

School of Geo Sciences

· Proiect:

Respiration of soil with the Multiplexer Licor along a gradient of elevation of the Andes to the Amazon

TEACHING AND PROJECT MANAGEMENT

INTRODUCCIÓN A LA PROGRAMACIÓN CON R 2021 **TIDYVERSE**

Online workshop

· Taught an introduction to R with Tidyverse.

VISUALIZACIÓN DE DATOS 2021

> Remote Online workshop

MANIPULACION DE DATOS 2019

> O Cusco, Peru Museo De Historia Natural

UNA INTRODUCCION A LA VISUALIZACION DE DATOS

Q Cusco, Peru Museo De Historia Natural

♥ TALKS

2021

2019

ASSESING LONG-TERM SHIFTS IN FUNCTIONAL COMPOSITION AND IMPACTS ON CARBON AND WATER CYCLING IN THE SOUTHERN ROCKY MOUNTAINS

AGU Fall Meeting 2021

• New Orleans, LA Online Everywhere

O Cusco, Peru

Remote

· Julia Chacon-Labella, Cesar Hinojo Hinojo, Paul Efren Santos, Lindsay Backhaus, Sandra Milena Duran, Lorah Seltzer, Alex Brummer, Amanda Henderson, Charles F. Rick Williams, Nicola Falco, Haruko M Wainwright, Eoin Brodie, Susan S. Hubbard, Kenneth Hurst Williams, Vigdis Vandvik and Brian Joseph Enquist

INTRODUCCIÓN A LA ECOLOGÍA BASADA EN RASGOS 2020 **FUNCIÓNALES**

ZOE Asociación para la Investigación y Conservación

• Remote

I have taught in higher education settings, using intuitive and data-driven instruction

2020

INTRODUCTION TO TIDYVERSE

Plant Functional Trait Course - PFCT5

Ousco, Peru

2020

ASSESSING HOW LONG-TERM SHIFTS IN SPECIES AND FUNCTIONAL COMPOSITION HAVE IMPACTED CARBON AND WATER CYCLING THE SOUTHERN ROCKY MOUNTAINS

AGU Fall Meeting 2020

Online

· Julia Chacon-Labella, Connor Wilson, Lindsay Backhaus, **Paul Efren Santos - Andrade**, Sandra Milena Duran, Alex Brummer, Amanda Henderson, Lorah Seltzer, Nicola Falco, Haruko M. Wainwright, Eoin Brodie, Charles F. Williams, Susan S. Hubbard, Vigdis Vandvik, Brian Joseph Enquist, Kenneth Hurst Williams

2020

ASSESSING THE SENSITIVITY OF EVAPOTRANSPIRATION TO SHIFTS IN PLANT TRAITS, CHANGING CLIMATE, AND EARLIER SNOWMELT: LONG-TERM OBSERVATIONS FROM A 1,000M ELEVATION GRADIENT IN THE EAST RIVER WATERSHED, COLORADO, USA

AGU Fall Meeting 2020

Online

Brian J. Enquist, Julia Chacon-Labella, Alex Brummer, Sandra Milena Duran,
Paul Efren Santos-Andrade, Nicola Falco, Amanda Henderson, Haruko
Murakami Wainwright, Vigdis Vandvik, Eoin Brodie, Susan S Hubbard,
Kenneth Hurst Williams

= PUBLICATIONS

2021

TROPICAL TREE GROWTH SENSITIVITY TO CLIMATE IS DRIVEN BY SPECIES INTRINSIC GROWTH RATE AND LEAF TRAITS

Global Change Biology

Bauman, D., Fortunel, C., Cernusak, L. A., Bentley, L. P., McMahon, S. M., Rifai, S. W., Aguirre-Gutiérrez, J., Oliveras, I., Bradford, M., Laurance, S. G. W., Delhaye, G., Hutchinson, M. F., Dempsey, R., McNellis, B. E., Santos-Andrade, P. E., Ninantay-Rivera, H. R., Chambi Paucar, J. R., Phillips, O. L., & Malhi, Y.

2021

REDUCED TREE DENSITY AND BASAL AREA IN ANDEAN FORESTS ARE ASSOCIATED WITH BAMBOO DOMINANCE

Forest Ecology and Management

· Belen Fadrique, **Paul Santos-Andrade**, William Farfan-Rios, Norma Salinas, Miles Silman, Kenneth J. Feeley

2018

TROPICAL FOREST LEAVES MAY DARKEN IN RESPONSE TO CLIMATE CHANGE

Nature Ecology & Evolution

· Christopher E. Doughty, Paul Efren Santos-Andrade, Alexander Shenkin, Gregory R. Goldsmith, Lisa P. Bentley, Benjamin Blonder, Sandra Díaz, Norma Salinas, Brian J. Enquist, Roberta E. Martin, Gregory P. Asner, Yadvinder Malhi

2017

CAN LEAF SPECTROSCOPY PREDICT LEAF AND FOREST TRAITS ALONG A PERUVIAN TROPICAL FOREST **ELEVATION GRADIENT?**

Journal of Geophysical Research: Biogeosciences

· Doughty C.E., Santos Andrade P.E., Goldsmith G.R., Blonder B., Shenkin A., Bentley L.P, Chavana Bryant C., Huaraca Huasco W., Díaz S., Salinas N., Enquist B.J., Martin R., Asner G.P., Malhi Y.

■ POSTER PRESENTATIONS

2021

EVALUATING THE EFFECT OF SAMPLING SCALE TO QUANTIFY DIFFERENT COMPONENTS OF PLANT BIODIVERSITY WITH IMAGING SPECTROSCOPY.

AGU Fall Meeting 2021

• New Orleans, LA Online Everywhere

· Sandra M Duran, Nicola Falco, **Paul Efren**, Jesus N Pinto Ledezma, Haruko M Wainwright, Heidi Steltzer, Eoin Brodie, Brian Joseph Enquist and Jeannine Cavender-Bares.

2021

HYPERSPECTRAL DERIVED TRAITS AND VEGETATION INDICES PREDICT RATES OF ABOVE- AND BELOW-GROUND CARBON FLUXES IN ALPINE MEADOWS

AGU Fall Meeting 2021

• New Orleans, LA Online Everywhere

· Sandra M Duran, Nicola Falco, Sergio Marconi, Paul Efren, Amanda Henderson, Haruko M Wainwright, Heidi Steltzer, Eoin Brodie, Scott R Saleska and Brian Joseph Enquist.