

Paul Efren Santos Andrade

Curriculum Vitae

EDUCATION:

- 2014 **Bachelor on Biological Science**. Universidad Nacional San Antonio Abad del Cusco.
- 2016 **Biologist**, Universidad Nacional San Antonio Abad del Cusco.

POST GRADUATE COURSES:

- 2013 **Why and how to measure functional characters of plants? - A practical introduction**, University of Oxford and Núcleo Diversus.
- 2018 **International Plant Functional Traits Course (PFTC3)**, University of Bergen, Norway, and the University of Arizona , USA.

LANGUAGE:

- **Spoken:**
Spanish.
English (Intermediate level).
- **Computer:**
R: Data science.
Matlab – básico.
Microsoft Office.

COLLABORATION - MENTORED:

- Co supervisor of undergraduate students: “**Effect of Thermal, Hydric and Translocation Variations of Grassland Ecosystem Plots on Co2 Flows at Parque Nacional del Manu**”. Universidad Nacional San Antonio Abad del Cusco.

PRESENTATIONS EXPERIENCE:

- Universidad Nacional San Antonio Abad del Cusco – ExpoBio Cusco 2017: **Caracteres Funcionales? Que? Como? y Por qué? (Plants Functional traits)**. Oral presentation.
- Universidad Nacional San Antonio Abad del Cusco. Instructor for: **Introduction to Data Science – Programming with R**. Short Course. February 2018.
- Universidad Nacional San Antonio Abad del Cusco: **¿Pueden las firmas espectrales predecir los caracteres funcionales de las hojas y los bosques tropicales a lo largo de un gradiente de elevación en el Perú?**. VII Semana de la Investigación 2018.

PUBLICATIONS:

- **Can leaf spectroscopy predict leaf and forest traits along a Peruvian tropical forest elevation gradients?**. Christopher E. Doughty, P.E. Santos-Andrade, et.al. Doi: 10.1002/2017JG003883. (2017).
- **Tropical forest leaves may darken in response to climate change**. Christopher E. Doughty, P.E. Santos-Andrade, A. Shenkin, G.R. Goldsmith, L.P.Bentley, B. Blonder, S. Díaz, N. Salinas, B. Enquist, R.E. Martin, G.P. Asner, Y.Malhi. Doi: 10.1038/s41559-018-0716-y.(2018).

EXPERIENCE:

- Zoological Society of Frankfurt - Ayuda para la Vida Silvestre Amenazada, Development of **Pre-professional Practices**. Between September 2012 and December 2012.
- School of Geo Sciences the University of Edinburgh. **“Respiration of soil with the Multiplexer Licor along a gradient of elevation of the Andes to the Amazon”**. From June 2011 to December 2012.
- Institute of Biological and Environmental Sciences University of Aberdeen. **“Are tropical uplands regional hotspots of methane and nitrous oxide?”**. From October 2010 a June 2013.
- Environmental Change Institute University of Oxford – Instituto de Ciencias de la Naturaleza Territorio y Energía Renovables Pontificia Universidad Católica del Perú. **Proyecto RAINFOR – Traits (CHAMBASA Project - CHallenging Attempt to Measure Biotic Attributes along the Slope of the Andes)**. From April 2013 to November 2013.
- Environmental Change Institute University of Oxford – University of Leeds. **“T- Forces: Changes of tropical forests in the land system”**. From June 2014 to October 2014.
- Department of Environment, Earth & Ecosystems Centre for Earth, Planetary, Space & Astronomical Research (CEPSAR) The Open University. **“Evaluate the contribution of tree- stem CH₄ and N₂O emissions to the total ecosystem emissions from a range of tropical rainforests on the south-eastern slopes of the Andes”**. From March 2015 to May 2015.
- Environmental Change Institute University of Oxford – University of Leeds – James Cook University of Australia. **“T- Forces: Changes of tropical forests in the land system”**. From June 2015 to October 2015.
- University of Miami - Department of Biology. **“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)”**. From November 2013 to September 2015.
- University of Oxford - GEM Global Ecosystems Monitoring Network. **RAINFOR - GEM: Un proyecto para entender el balance de carbono en los bosques andinos y amazonicos**. From June to December 2016.
- University of Miami - Department of Biology. **“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”**. From June to July 2016 and June to August 2017.
- **Internship at the Rocky Mountain Biological Lab with Brian Enquist’s lab**, a scholarship from TraitTrain project from the University of Bergen and the University of Arizona. June to August - 2018.