

# Pedro Val

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School of Earth and Environmental Sciences  
Queens College, City University of New York

## EDUCATION

- Syracuse University 2012 - 2016  
**Ph.D. in Earth Sciences** (focus area: **Tectonic and Process Geomorphology**)  
Fellowship (4 years). Sponsor: CAPES – Science without Borders (Brazilian Government)
- Amazon Federal University 2006 - 2012  
**B.S. in Geology** (Manaus, Amazonas, Brasil)
- Washington & Lee University 2009  
**Superior Education Consortia Program: Academic Exchange program**  
Sponsor: CAPES/FIPSE Brazil-USA

## PROFESSIONAL EXPERIENCE

- Queens College, City University of New York – 08/2022 – Present  
**Assistant Professor**  
Primary Teaching Responsibility: Earth internal processes; Geology in the field
- Federal University of Ouro Preto (UFOP) 08/2018 – 08/2022  
**Assistant Professor** (tenured in July 2021)  
Primary Teaching Responsibility: Geochemistry; Advanced Geomorphology
- Hydrobiology Pty Ltd 05/2022 - 08/2022  
**Consultant** in Environmental Science
- Hydrobiology Pty Ltd 08/2017 - 2018  
**Subconsultant** in Environmental Science
- Scripps Institution of Oceanography (UCSD) 09/2016 – 07/2018  
**Postdoctoral Scholar** in Geomorphology and Landscape Evolution  
(supervisor: Jane K. Willenbring)
- Syracuse University 2015 - 2016  
**Academic Consultant** at Student Support Services  
Provide individual and group tutoring for under-represented and academically-at-risk students  
(supervisor: Chris Weiss)
- PETROBRAS 2011  
**Internship: Sedimentology & Stratigraphy**  
Provide support to the sedimentology and stratigraphy sector. Describe drill-cores, build stratigraphic sections, provide field support in oil/gas-producing fields in the Amazon rainforest.

## INTERNATIONAL PANELS

- **Science Panel for the Amazon** (*United Nations Sustainable Development Solutions Network*)  
Coordinating Author of Chapter 1 – Geological history and geodiversity of Amazonia.

## RESEARCH

*Peer-reviewed publications (journals and book chapters)* - \* denotes student author:

Albert, J, Carnaval, AC, Flantua, SGA, Lohmann, LG, Ribas, CC, Riff, D, Carillo, JD, Fan, Y,  
Figueiredo, JJP, Guayasamin, JM, Hoorn, C, Melo, GH, Nascimento, N, Quesada, CA, Ulloa Ulloa, C,

- Val, P**, Arieira, J, Encalada, AC, Nobre, CA, 2023 Human impacts outpace natural processes in the Amazon. *Science*, doi: 10.1126/science.abo5003
- Ruetenik, GA; Jansen, JD; **Val, P**; Ylä-Mella, L. 2023 Optimising global landscape evolution models with <sup>10</sup>Be. *Earth Surface Dynamics*, doi: 10.5194/esurf-11-865-2023
- dos Santos, JM; Salamuni, E; **Val, P**; Silva, CL; Morales, N; Souza, IAS; Sanches, E, 2023 Cenozoic tectonic reactivation and its implications for landscape transience in southeastern Brazil. *Earth Surface Processes and Landform*, doi: 10.1002/esp.5670
- Val, P.**; Willenbring, JK, 2022. Across-strike asymmetry of the Andes orogen linked to the age and geometry of the Nazca plate. *Geology*, doi: 10.1130/G50545.1
- \*Fadul, C. M.; \*Oliveira, P.; **Val, P**, 2022. Ongoing landscape transience in the Eastern Amazon Craton consistent with lithologic control of base level. *Earth Surface Processes and Landforms*, doi: 10.1002/esp.5447
- Schaefer, JM; Codilean, AT; Willenbring, JK; Lu, Z-T; Keisling, B; Fülöp, R-H; **Val, P**, 2022 Cosmogenic Nuclide Techniques, *Nature Reviews Methods Primers*, doi: 10.1038/s43586-022-00096-9 - INVITED
- °**Val, P**; Willenbring, JK, 2022 Subduction Zone Dynamics and the Topography of Cordilleran Orogens. In: Shroder, J.J.F. (Ed.), *Treatise on Geomorphology*, vol. 2. Elsevier, Academic Press, pp. 68–86. <https://dx.doi.org/10.1016/B978-0-12-818234-5.00090-0>. - INVITED
- Hoorn, C; Boschman, LM; Kukla, T; Sciumbata, M; **Val, P**, 2022 The Miocene wetland of western Amazonia and its role in biogeography, *Perspective Article*, Botanical Journal of the Linnean Society, doi: 10.1093/botlinnean/boab098
- Hoorn, C; Kukla, T; Bogotá-Angel, G.; van Soelen, E; González-Arango, C; Wesselingh, FP; Vonhof, H; **Val, P.**; Morcote-Rios, G; Roddaz, M; Dantas, EL; Santos, RV; Damsté, JSS; Kim J-H; Morley, RJ, 2022 Cyclic sediment deposition by orbital forcing in the Miocene wetland of western Amazonia? New insights from a multidisciplinary approach. *Global and Planetary Change*, 210, doi: 10.1016/j.gloplacha.2021.103717
- Val, P.**; Lyons, N; Gasparini, N; Willenbring, J; Albert, J 2022 Landscape evolution as a diversification driver in freshwater fishes, *Frontiers in Ecology and Evolution*, 9, doi: 10.3389/fevo.2021.788328
- Peifer, D; Cremon, ÉH; **Val, P**; Fernandes, NF 2022. Bases teóricas do modelo stream-power de incisão fluvial. *Revista Brasileira de Geomorfologia*, 23(2), 1512-1523.
- Fernandes, NF; Peifer, D; **Val, P** 2022 Capítulo 35: Modelos numéricos de evolução do relevo (LEMS) e sua importância para estudos de evolução da paisagem. In: Júnior, ABC; Gomes, MCV; Guimarães, RF; Gomes, RAT. *Revisões da Literatura da Geomorfologia Brasileira*
- Sá Leitão, CS; Souza, É; Santos, CH; **Val, P.**; Val, AL; Almeida-Val, VMF. 2021 River reorganization affects populations of dwarf cichlid species (*Apistogramma* genus) in the lower Negro River, Brazil. *Frontiers in Ecology and Evolution*, 9, doi: 10.3389/fevo.2021.760287
- °**Val, P.**; Figueiredo, J; Melo, G; Flantua, SGA; Quesada CA; Fan, Y; Albert, JA; Guayasamin, JM; Hoorn, C, 2021 Chapter 1: Geology and geodiversity of the Amazon: Three billion years of history, In: Nobre C, Encalada A, ... (Eds). *Amazon Assessment Report 2021. United Nations Sustainable Development Solutions Network, New York, USA. Available from theamazonwewant.org/spa-reports/* doi: 10.55161/POFE6241 - INVITED
- Lyons, N; **Val, P.**; Albert, J; Willenbring, J; Gasparini, N. 2020 Topographic controls on divide migration, stream capture, and diversification in riverine life. *Earth Surf. Dynam. Discuss.*, doi: 10.5194/esurf-8-893-2020

- Albert, J; **Val, P.**; Hoorn, C. 2018 The changing course of the Amazon River in the Neogene: center stage for Neotropical diversification. *Neotropical Ichthyology*. 16, n.3, doi: 10.1590/1982-0224-20180033
- Ruetenik, G; Moucha, R; Hoke, G; **Val, P.** 2018 Regional landscape response to thrust belt dynamics: The Iglesia basin, Argentina. *Basin Research*. 30, 6, 1141-1154
- Val, P.**; Venerdini AL; Ouimet W; Alvarado P; Hoke GD. 2018 Tectonic control of erosion rates in the southern Central Andes, *Earth Planet. Sci. Lett.* 482, 160-170, doi: 10.1016/j.epsl.2017.11.0004
- Sá-Leitão, CS; Santos, CH; Souza, EM; **Val, P.**; Vilarinho, G; Silva, MN; Val, AL; Almeida-Val, VMF; 2017 Development and characterization of microsatellite loci in Amazonian dwarf cichlids *Apistogramma* spp. (Peciformes: Cichlidae): uncovering geological influence on Amazonian fish population. *Journal of Applied Ichthyology* 33, 6, 1196-1199, doi: 10.1111/jai.13490
- Val, P.**; Hoke, GD. 2016 A practical tool for examining paleo-erosion rates from sedimentary deposits using cosmogenic radionuclides: examples from hypothetical scenarios and data. *Geochemistry, Geophysics, Geosystems* 17, 1-11, doi: 10.1002/2016GC006608
- Val, P.**; Hoke, GD; Fosdick, JC; Wittmann H. 2016 Reconciling tectonic shortening, sedimentation and spatial patterns of erosion from <sup>10</sup>Be paleo-erosion rates in the Argentine Precordillera. *Earth Planet. Sci. Lett.* 450, 173–185 doi: 10.1016/j.epsl.2016.06.015
- Val, P.**; Silva, CL; Harbor, DJ; Morales, N; Maia, TFA; Amaral, FR. 2014 Erosion of an active fault scarp leads to drainage capture in the Amazon region, Brazil. *Earth Surface Processes and Landforms*, Vol. 39, p. 1062-1074, doi: 10.1002/esp.3507
- Val, P.**; Silva, CL; Santos, JM; Morales, N; Harbor, D 2013 Distribuição de knickpoints em bacias de drenagem na região de Manaus (AM) e seu potencial para o estudo neotectônico e evolução da paisagem na Amazônia. *Contribuições à Geologia da Amazônia*, 8, 7-24

#### **Doctoral dissertation**

- Val, P.** 2016 The pace and timing of changing landscapes as viewed through cosmogenic radionuclides: synthetic and real examples from the Central Andes and Amazonia. *Syracuse University*

#### **Conference talks and posters – Selected (\*denotes student author):**

- Val, P.**; Peifer, D. 2023, Hard rocks as first-order regulators of long-term landscape evolution in continent interiors. American Geophysical Union – **ORAL PRESENTATION**
- \*Oliveira, P.; **Val, P.** 2023, Capturing the geomorphic signals of the incision of the Amazon River. American Geophysical Union – **POSTER PRESENTATION**
- Ruetenik, G.R.; Jansen, J.; **Val, P.** 2022. Understanding landscape evolution parameters using global <sup>10</sup>Be erosion rates. EGU General Assembly
- Val, P.** 2021. Elevação e simetria de orógenos Cordilheiranos: da zona de subducção ao feedback climático. 50° Congresso Brasileiro de Geologia - **INVITED**
- Willenbring, J. K.; **Val, P.** 2021. When do tectonic take the back seat? A macroscopic view of Earth's Surface (Invited). AGU Fall Meeting
- Oliveira, P.; **Val, P.**; Hoke, D. 2020. Spatial distribution and quantification of surface uplift in the South-Central Andes and Precordillera. AGU Fall Meeting 2020.
- Val, P.**; Willenbring, J. K. 2020. Across-strike asymmetry of the Andes orogen linked to the age and geometry of the Nazca plate. AGU Fall Meeting
- Fadul, C.M.\*; **Val, P.** 2020. River capture and transient incision across lithologically controlled topographic barriers in Amazonia's eastern Guiana Shield. Geological Society of America. Annual Meeting

- Val, P.;** Willenbring, J. K. 2020. Building and moving mountains: Subduction zone imprints on the heights and asymmetries of cordilleran mountains. Geological Society of America. Annual Meeting
- Val, P.;** Willenbring, J. K. 2019. The tail doesn't wag the dog: Asymmetry of the Andes orogen driven by the geometry of the subducting Nazca slab. Regional Conference in Geomorphology, Athens 2019
- Val, P.;** Willenbring, J. K. 2019. Asymmetry of the Andes orogen, geometry of the subducting Nazca slab, and topographic trends across rain shadows. CLAST 2019 Penrose Conference, Juneau AK 2019 - *INVITED*
- Lyons, N.; Gasparini, N.; Albert, J.; **Val, P.;** Willenbring, J. K. 2018. Isolating the conditions of drainage reorganizations and its impacts on species evolution using numerical models. American Geophysical Union – Fall Meeting, Washington, D.C.
- Willenbring, J.; **Val, P.** 2018 Not feeling the buzz: tectonic-not climate-sets mountain heights (Invited Presentation). In: GSA Meeting, 2018, Indianapolis. GSA Annual Meeting in Indianapolis, Indiana, USA – 2018
- Lyons, N; **Val, P.;** Albert, J; Gasparini, N; Willenbring, J. K. Stream captures: Dynamics and impacts on biodiversity. In: European Geosciences Union General Assembly 2018, 2017, Vienna. European Geosciences Union General Assembly 2018.
- Val, P.;** Venerdini AL; Ouimet W; Alvarado P; Hoke, GD. 2016 Surface uplift governs millennial and decennial erosion rates in the southern Central Andes. Poster presentation, paper #T31A-2890. American Geophysical Union – Fall Meeting, San Francisco, CA.
- Val, P.;** Hoke, GD; Fosdick, JC; Wittmann, H. 2015 Dynamics of erosion in a compressional mountain range revealed by <sup>10</sup>Be paleoerosion rates. Oral presentation, paper #T12B-04. American Geophysical Union – Fall Meeting, San Francisco, CA
- Val, P.;** Hoke, G. D. 2015 Surface uplift of the Frontal Cordillera at 30.5° - 31°S constrained through river profile analysis of the Castaño and Calingasta catchments, south-central Argentina. Poster #311-2 Geological Society of America 2015 – *Baltimore, MD Meeting.*

## GRANTS AND AWARDS

- 2023 CAREER** – National Science Foundation, Geomorphology and Land-Use Dynamics (US\$750,499)
- 2023 DELTA H 2023** – Serrapilheira Institute (R\$55,500)
- 2023 PSC CUNY (Internal)** – Queens College (US\$6,000)
- 2023 Research Enhancement Award (Internal)** – Queens College (US\$15,000)
- 2019 Grant: AMazon Evolution driven by RIVER Capture events** – Serrapilheira Institute (R\$99,274)
- 2019 Research Incentive, Federal University of Ouro Preto** (R\$3,500)
- 2018 Grant: Detrital zircon provenance in the Guiana Shield.** CNPq (R\$20,000 + R\$4,800 REU scholarship for an undergraduate student at UFOP) #438735/2018-8.
- 2015 Newton E Chute Award for Outstanding Graduate Scholarship, Service to the Department and Professional Promise.** Dpt. of Earth Sciences (Syracuse U.)
- 2015 John J Prucha Research Fund** (US\$3,000) - Dpt. of Earth Sciences (Syracuse U.)
- 2014 John J Prucha Research Fund** (US\$3,000) - Dpt. of Earth Sciences (Syracuse U.)
- 2014 Graduate Student Travel Grant** (US\$900) - Geological Society of America (GSA)
- 2013 John J Prucha Research Fund** (US\$3,000) - Dpt. of Earth Sciences (Syracuse U.)
- 2012 Full-time Ph.D. fellowship** – CAPES – Science Without Borders (duration: 4 years)
- 2009 CAPES-FIPSE Superior Consortia Program** - Environmental Studies at Washington & Lee University.

## EDITORIAL BOARDS

*Editorial Advisor (honorary)* – Earth Surface Processes and Landforms (since 2022)

*Review Editor* – Frontiers in Earth Sciences (Sedimentology, Stratigraphy and Diagenesis Section)  
(since 2018)

## PEER-REVIEW

*Reviewer for:* Serrapilheira Institute | NSF | Tectonics | Journal of Geophysical Research: Earth Surface | Geology | Earth and Planetary Science Letters | Frontiers in Earth Science | Quaternary Science Reviews | Earth Surface Processes and Landforms | Geomorphology | Tectonophysics | Scientific Reports | Brazilian Journal of Geomorphology | Brazilian Journal of Geology | Journal of South American Earth Sciences | Hydrological Processes | Journal of Maps

## INVITED TALKS AND KEYNOTES

- 2023** CLIMATE PERSPECTIVES, SESC São Paulo, SP – Brazil  
*Impacts of climate change in the Amazon rainforest*  
DELTA H 2023, Corumbá, MS – Brazil  
*Tectonically dead but geomorphologically alive: lithology as first order regulator of landscape evolution*  
GundxChange - GUND INSTITUTE FOR ENVIRONMENT  
*Linking landscape evolution and aquatic biodiversity in continent interiors*  
CITY COLLEGE OF NEW YORK, CUNY  
*Tectonically dead by geomorphically alive!*  
QUEENS COLLEGE, CUNY  
*Tectonically dead by geomorphically alive!*
- 2022** BROOKLYN COLLEGE, CUNY  
*It's just a lithologic effect: Widespread transience in intraplate settings*  
SYRACUSE UNIVERSITY - K. Doulgas Nelson Seminar Series  
*It's just a lithologic effect: Widespread transience in intraplate settings*  
QUANTITATIVE GEOLOGY CONFERENCE KEYNOTE (Sao Paulo, Brazil)  
*It's just a lithologic effect: Widespread transience in intraplate settings*  
LANDSCAPES LIVE SEMINAR SERIES  
*It's just a lithologic effect: Widespread transience in intraplate settings*
- 2021** AMAZON COOPERATION TREATY ORGANIZATION (ACTO)  
*The Amazon Assessment Report Part 1*  
50° Brazilian Geology Congress Keynote  
*Climate's minimal impact in the evolution of Cordilleran Mountain ranges*  
QUEENS COLLEGE, CUNY  
*Climate's minimal impact in the evolution of Cordilleran Mountain ranges*  
UNIVERSIDADE DE SÃO PAULO, Geophysics Institute (IAG)  
*Tectonic control of elevation and asymmetry of Cordilleran Mountain Ranges*
- 2020** GEAFS  
*Cosmogenic nuclide applications in surface processes*  
UNIÃO DE GEOMORFOLOGIA BRASILEIRA  
*Landscape evolution modeling in quantitative geomorphology*
- 2019** UNIVERSIDADE FEDERAL DE MINAS GERAIS  
*Quantitative Geomorphology: theory and application*
- 2018** QUEENS COLLEGE, CUNY  
*Dynamics of landscape change in space and time*
- 2017** TULANE UNIVERSITY

*Catching up with Topography: Dynamics of erosion during mountain building*  
UNIVERSITY OF CALIFORNIA, LOS ANGELES

*Erosion during mountain building: insights from the southern Central Andes*  
INSTITUTO NACIONAL DE PESQUISAS DA AMAZÔNIA, ADAPTA (INPA, Manaus)

*The AMERICAS Project: AAmazon Evolution by River Capture eventS*

2016 SCRIPPS INSTITUTION OF OCEANOGRAPHY

*Erosion during mountain building: insights from the southern Central Andes*

## ADVISING AND ADVISORY COMMITTEES

### **Graduate level - Ongoing**

2023 CUNY, Earth and Environmental Science PhD Program

Pedro S. Oliveira – PhD Advisor

*Constraining the incision of the lower Amazon River system*

Renato V.M.A. da Silva – PhD student – *City University of New York* (Advisor)

*Lithologic controls of landscape evolution in tectonically dead settings*

2023 UNIVERSIDADE FEDERAL DE OURO PRETO

Caio Augusto Crelier Cubas – MSc Advisor

*Divide migration in the Paraná Basin*

### **Graduate level - Finished**

UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL

Jéssica Miranda – PhD Coadvisor

*Geomorphic imprints of neotectonics in Southeast Brazil*

UNIVERSIDADE FEDERAL DE OURO PRETO

Camila Fadul – MSc Advisor

*Ongoing landscape transience in the Guiana Shield*

### **Undergraduate level - Ongoing**

2023 QUEENS COLLEGE

Adriana Zumba – Undergraduate Research Advisor

*Landscape and species evolution*

Hector Cordova

*Group reading participant and lab assistant*

### **Undergraduate level - Finished**

UNIVERSIDADE FEDERAL DE OURO PRETO

Pedro Silvestre de Oliveira

*Landscape evolution modeling of the Precordillera thrust belt using Landlab*

Caio Augusto Crelier Cubas

*Brazil's continental divide migration*

Mariana Pimenta Vilela

*Landscape evolution modeling knickpoint distributions in chi-space using Landlab*

Luane Ferreira

*Detecting climatic imprints on the topography of the Peruvian Andes*

Arthur Lima Eugênio

*Topographic analysis and numerical modeling of river captures in SE Brazil*

Matheus Parreiras

*Using drones to quantify gully erosion*

Pedro Dutra Drummond

*Climatic influences on the morphology of coastal basins in Brazil*

## TEACHING

### 2022 – present

Courses @ Queens College, CUNY:

- Methods in Geosciences
- Earth Internal Processes (includes Structural Geology)
- Geology in the Field

*To be introduced in Fall 2024: Science for the Amazon (0-level course)*

### 2018 – 2022

Grad courses @ UFOP:

- Quantitative Geomorphology
- Fold-and-thrust belts: from lithosphere to landscape

Undergrad courses @ UFOP:

- Geochemistry
- Advanced Quantitative Geomorphology: Theory and Practice
- Introduction to Geology
- Macroscopic Petrography
- Analytical techniques in environmental geochemistry
- Environmental Geochemistry

## VOLUNTEER, OUTREACH, AND SERVICE

### 2023 DELTA H Meeting 2023

*Coordinator*

CUNY Graduate Center

*Guiding Prompts for Applicant Personal Statements*

Landscapes Live Seminar

*Organizing Committee*

### 2022 DELTA H Meeting 2022

*Creator and Coordinator*

### 2020 Science for those in need (Creator)

*Free science presentations in exchange for donations to NGOs battling COVID-19*

### 2017 Syracuse University Project Advance (SUPA)

*The Earth System for High School Teachers / Invited speaker*

Soil Kitchen: Free lead-screening for urban residents

*XRF operator and science educator*

Scripps Community Outreach Program for Education (SCOPE)

*SIO Pier/Geology tour guide*

### 2015 Central New York Earth Science Student Symposium – *Coordinator*

### 2013 Central New York Earth Science Student Symposium – *Sponsorship Agent*

### 2009 First Geology-Week of the Amazon Federal University (student-led) – *Program Chair*

### 2007 Spreading the knowledge of Earth Sciences at public schools in Manaus – *Speaker*

### 2006-2012

The Brazilian Science and Technology Week, Manaus – *Geology Presenter*

## SCIENCE COMMUNICATION

- 2023 [Quando surgiram as cachoeiras da Amazônia?](#) (*When did Amazon's waterfalls originate?*)  
[O clima global depende do futuro da Amazônia](#) (*The global climate depends on Amazon's future*)
- 2022 [Por que ainda existem montanhas no Brasil?](#) (*Why are there mountains in Brazil still?*)  
[O relógio das paisagens cai do céu](#) (*The landscape's clock falls from the sky*)  
[A queda do paredão em Capitólio era uma questão de tempo](#) (*The rockfall in Capitólio was a matter of time*)
- 2021 [Como a Terra construiu a Amazônia?](#) (*How did Earth build the Amazon?*)  
[O chão que pisamos é uma janela para o passado](#) (*The ground we step on is a window to the past*)
- 2020 [A revisão por pares é um trabalho fundamental](#) (*Peer review is a fundamental job*)  
[Poderia o clima acelerar os motores tectônicos da Terra?](#) (*Could climate accelerate Earth's tectonic motors?*)  
[O silenciamento do submundo](#) (*The silencing of the underworld*)

## PRESS

- 2023 [Reviews explore the drivers and impacts of Amazon deforestation and degradation](#) *EurekAlert*  
[Reviews explore impacts of Amazon deforestation](#) *BigNewsNetwork*  
[The Amazon is deteriorating too fast for species and the climate to adapt](#) *Bloomberg*  
[Scientists raise alarms about the destruction of the Amazon.](#) *CUNY Graduate Center*  
[Ação humana pode afetar Amazônia milhares de vezes mais rápido que processos naturais](#) *Bori Translation (own): Human activities can affect the Amazon up to a thousand times faster than natural processes*  
[Devastação da Amazônia está se tornando irreversível, alerta estudo](#) *Jornal Nacional, Globo Translation (own): Amazon devastation is becoming irreversible, study alerts*
- 2022 [Como a Terra construiu a Amazônia?](#) *Serrapilheira* (interview in Portuguese)
- 2020 [From DNA to Geology](#) *Serrapilheira* (interview in Portuguese)
- 2019 [Pesquisador investiga mudanças em paisagens pelo DNA dos peixes](#) *Minas faz ciência Translation (own): Researcher investigates landscape changes in fish DNA*  
<http://minasfazciencia.com.br/2019/09/23/pesquisador-investiga-mudancas-em-paisagens-pelo-dna-dos-peixes/>
- 2016 [Huge time-lag between erosion and mountain building.](#) *Phys-org*

## HIGHER EDUCATION TRAINING

### 2018-2022

Sala Aberta – Training for tenure-track professors (UFOP)

### 2016-2018

EPIC Program - Educator Training Path (UCSD)

2017 Course Design Studio @ Center for Engaged Teaching (UCSD)

2017 Pathways to Scientific Teaching with Diane Ebert-May (UCSD)

## BACKGROUND AND TOOLS

*Scientific Programming:* **Matlab, Python, Landlab**

*Geographic Information System and Remote Sensing:* **ArcGIS, QGIS**

*Laboratory experience:* *In-situ* and meteoric cosmogenic nuclide sample processing; Mineral separation

## IDIOMS

English – Fluent | Spanish – Regular | Portuguese – Native Language