

Ana Clara Pelliciaro Silva

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Last CV update: 23/06/2022

Summary

- University College of London 4th Year MSci Geology Student
- Diverse experience in field geology and field conservation
- Intensive experience with MatLab programming

Education:

Lansdowne College London	15 Aug 2015 - 18 July 2017
University College of London (Undergraduate)	1 Sept 2018 - 18 Oct 2020
Freie Universität Berlin (Study Abroad)	1 Nov 2020 - 16 July 2021
University College of London (MSci)	20 Aug 2021 - 16 June 2022

MSci Thesis (1st overall):

Organic matter and ferric-ferrous minerals in frutexites dubiofossils might support the search for life on Mars

Supervisor name: Dominic Papineau (d.papineau@ucl.ac.uk)

Freie Universität Berlin (Study Abroad)

- Program for Honours Performance during first two years at UCL. Selected students have shown to be independent learners who could withstand the challenges of moving to a different country for their last undergraduate year. These students will return to UCL for their MSci programs.

Professional Experience:

Research assistant - Internship

16 July 2021 – 19 Aug 2021

CrOpwall - Croatia Wallacea Operations with 20000 Leagues - Silba Island, Croatia

- Collect data on black and purple sea urchins in the Adriatic Sea around Silba Island; dive twice a day with research team to measure sea urchin test diameters in quadrants; record habitats, positions (hidden or exposed)
 - Collect data on the *Posedonia oceanica* species; dive twice a day with research team to count with the a transect and quadrat the percentage and number of *Posedonia oceanica*, and percentage of sand, rock, and dead matter found along a transect line
 - Compare data inputs between 2019 and 2021
 - Analyse Excel data bank to calculate the Conservation Index for more than 500 *Posedonia oceanica* species
 - Collect data on *Spongia officinalis* to map the population around small Adriatic islands
 - Analyse surface texture of black sponges to differentiate between *Spongia officinalis* and *Aplysina aerophoba*
 - Teach new students how to perform data analysis for the *Posedonia oceanica* species
 - Assist in public events to increase awareness on the pollution of the Adriatic Sea in Croatia
 - Identify threatened juvenile fish species; data entry for relevant population size and habitat
- Contact details: Barbara Čolić, bcolic@drustvo20000milja.hr

Geologist Assistant – Internship

1 June 2020 – 30 June 2020

Eramet Group - Trapes, France

- Perform entire desktop study on the mining potential of Malawi
 - Study and gather scientific literature about Malawi Titanium alluvial deposits
 - Model meandering river migration at the Bua Channel to find out possible Titanium deposits using MATLAB and Google Earth Pro
 - Produce a comparative study between the Titanium reserves in Malawi at the Bua Channel and Akonolinga, Cameroon to understand which reserve is more profitable
 - Research application of Titanium geophysics in alluvial deposits to localize Titanium reserves more precisely
- Contact details: Christophe Thillier, christophe.thillier@erametgroup.com

Volcanology Research Assistant - Internship

13 May 2019 – 15 July 2019

Colima Internship and Investigation for Volcanology - Colima, Mexico

- Measure the height and the intensity of the 2017 PDC flow via collecting data on tree properties damaged from the 2017 eruption

- Produce bi-weekly reports by comparing crater volume utilising photogrammetry of the Volcan de Colima using MeshLab
- FlySpec maintenance
- Produced thermal images; record crater minimum and maximum temperatures in the North, South, East, and West corners
- Thermal camera maintenance
- Perform seismic picking; analyse seismic waves and divide them into categories: rock falling, explosion, degassing, minor explosion

Rock Data Base Assistant – Internship

13 May 2019 – 15 July 2019

Colima Internship and Investigation for Volcanology - Colima, Mexico

- Help to organise the rock data base of University of Colima; identify which rocks belonged to three different volcanoes: Colima, Cerobuco and Socorro
 - Successful organisation of the whole rock data base of the University of Colima with more than 1,500 rock specimens
- Contact details: Nick Varley, nick@ucol.mx

Volunteering

English Tutor

17 Nov 2020 - Present

Vale a Pena Aprender Inglês - Remote

- Tutor English to students ages 12-16 who show excellent performance at the “Vale a Pena Aprender Inglês” program offered by Vale, in Paraobepas Brazil
- Interview and conversation training 3 hours a week to bring students who plan on applying to international scholarships from an A1 level to a B2 level

As and A level grades:

Maths (A), Geography (A), Psychology As (A) done at Lansdowne College (contact details: mark.love@lansdownecollege.com)

Skills:

MATLAB, LaTeX, MeshLab (3D modelling), QGIS, Microsoft Excel, Google Earth Pro

Language Skills:

Portuguese (native), Spanish (fluent in all competences), English (fluent in all competences), French (B2 in understanding, speaking and writing), German (B2 in understanding, speaking and writing)

Communication Skills:

I am passionate about teaching and presenting my work. During my gap year in 2017, I taught English to a class of 20 mature students for 3 months in Peru, this experience made me able to explain complex concepts in a simpler term, making the same topic understandable for different age groups and language proficiency levels.

Organisational Skills:

When coming back from my Erasmus Exchange Year at the Freie Universitaet Berlin to UCL, I needed to carry out my MSci research project and my third-year independent mapping project simultaneously. These two pieces of course work were worth 30% of my degree, and are usually split in two years. However, because I chose to go abroad on my third year, I did both of them in my final year at university. Managing the heavy work load of these two projects in my final year made me develop the necessary time management and organisational skills which I believe are a pre-requisite to pursuing a PhD program.

Presentation at Conferences:

12th Centre for Planetary Sciences Summer Meeting London-UK

16 June 2022

Presentation title: *Organic matter and ferric-ferrous minerals in frutexites dubiofossils might support the search for life on Mars*

Relevant Coursework:

- Earth Materials GEOL001 (Honours performance)
- Geochemistry GEOL007 (Honours performance)
- Global Geophysics GEOL0012 (Honours performance)
- Isotope Geology GEOL0017 (Honours performance)
- Numerical Methods for Earth Science GEOL0018 (Honours performance, including independent project)
- Reconstruct the thermal history of an exhumed rock using MATLAB
- Mathematics for Engineers 1 MATH0049 (Honours performance)
- Exobiology and Geochemistry-related Master's project (see title in Education session)
- Independent Mapping Project using data produced by the Apollo Missions and Perseverance Rover
- Map Moon craters and Martian landslides using QGIS

Extra skills:

Certified Advanced Open Water PADI Diver

Certified PADI Survey Diver