

CELIA ARANDA REINA

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EDUCATION

University of Illinois Urbana-Champaign, Illinois, USA August 2022 - Present

Institut de Physique du Globe (Université Paris Cité), Paris, France
Dual PhD in Earth Science and Environmental Change and Science de la Terre.
Advisors: Dr. Jennifer Druhan and Dr. Julien Bouchez.

Princeton University, New Jersey, USA May 2021

B.S.E. in Civil and Environmental Engineering, *summa cum laude*
Certificate in Latin American Studies

Study abroad: Pontificia Universidad Católica, Santiago, Chile August - December 2019

United World College of the Adriatic, Duino, Italy May 2016
International Baccalaureate Program, final score: 43/45

EXPERIENCE

Research trainee, Clarity AI (Spain) August 2021 - April 2022

- Intern in the Product Research and Innovation team, working 30 hours per week
- Main projects: research on ESG bonds; modeling companies' wastewater emissions

Undergraduate Course Assistant, Princeton University (USA) September - December 2020

CEE207: Introduction to Environmental Engineering

- Answered questions from students during office hours
- Graded course assignments

Research Assistant, High Meadows Environmental Institute (USA) June - August 2020

Interfacial Water Group (Bourg Group)

- Modeled surface mineral weathering with PhreeqC
- Performed data analysis of synchrotron experiments (XRR, GISAXS)

Research Assistant, Centro de Excelencia en Geotermia de los Andes October 2019

- Measured strike and dip angles of faults and dykes in the Maule region, Chile
- Modelled rock deformations due to volcanic and seismic activity

Research Assistant, High Meadows Environmental Institute July 2018 - January 2019

Maloof Group

- Measured stratigraphy and collected sedimentary rock samples in Zumaia and Sopelana, Spain
- Processed rock samples with mass spectrometer in the laboratory at Princeton

Administrative Assistant, Gourmandise S.L. (Spain) February - August 2017

- Programmed databases using Microsoft Access to control date of expiration of products
- Coordinated scientific research to improve quality of iced tea

ACHIEVEMENTS

Nova 111 Student List 2023 Spain: annual publication that selects the top 111 Spanish students aged 18–25 who show the highest potential across 11 different disciplines.

Illinois Distinguished Fellowship (University of Illinois at Urbana Champaign, 2022-2027)

Departmental Fellowship, Department of Earth Science and Environmental Change (University of Illinois at Urbana Champaign, 2022-2023)

W. Taylor Thom, Jr. Prize for Excellence in Geological Engineering, Princeton University (2021)

Building Bridges Award from Princeton University's LGBT Center (2021)

CONFERENCE PRESENTATIONS

Aranda Reina, Celia, Jon K. Golla, Julien Bouchez and Jennifer Druhan. “Quantifying major element fluxes through a granitic forested watershed using reactive transport models highlights the importance of atmospheric inputs to ecosystem function”. Goldschmidt Conference. Poster, Lyon, France, July 12, 2023.

Aranda Reina, Celia, Bastien Wild, Jordi Cama and Ian C. Bourg. “Mineral weathering and nutrient cycling at early stages of soil development”. Goldschmidt Conference. Flash talk, virtual, July 6, 2021.

LEADERSHIP

Tutor at Programa Aditus, Spain

February 2020 - Present

- Weekly advising meetings with Spanish students from underrepresented backgrounds throughout their application process to US universities.

LGBT Peer Educator, Princeton University

April 2018 - May 2021

- Presented panels on gender and sexuality to incoming first years
- Lead workshops for faculty, staff, and student organizations
- Founded the International Queer Group, and organized and lead virtual activities for the international LGBTQIA+ community at Princeton

International Center Leader, Princeton University

April 2018 - May 2019

- Lead international orientation group of incoming first year undergraduates
- Organized cultural activities for international community on campus

SKILLS

Languages: Spanish and Catalan (native speaker); English, Portuguese, and Italian (fluent); French (beginner)

Software: Python, MATLAB, CrunchFlow, MS Office, qGIS, LaTeX, OCR, text-mining

Sports: Ultimate Frisbee at Clockwork (Princeton, NJ) (2017-2021) Esperit Ultimate Club (Sabadell, Spain: 2020 - 2022), Ultimate Champaign Urbana Recreational League (2022-Present), and Disc Golf (2021-Present)

Arts: Spanish guitar and singing (2011 - Present)