

# CELIA ARANDA REINA

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## EDUCATION

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- University of Illinois Urbana-Champaign**, Illinois, USA August 2022 - Present  
PhD in Geology
- 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

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- Research trainee, Clarity AI (Spain)** August 2021 - April 2022
- Intern in the Product Research and Innovation team, working 30 hours per week
- 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
- Joves i Ciència program, Catalunya - La Pedrera Foundation (Spain)** 2013-2015
- *Institute of Astrophysics of the Canary Islands (IAC)*, Tenerife, Spain July 2015  
Found and determined the orbit of asteroids with telescope IAC-80 and astronomical software  
Calculated solar activity using telescope TAD

- *Catalan Institute of Nanoscience and Nanotechnology (ICN2)*, Cerdanyola, Spain July 2014  
Synthesized and characterized  $TiO_2$  nanocapsules with optic microscopes, SEM, and Mastersizer for business application on conveyor belts
- *Catalan Institute of Chemical Research (ICIQ)* Món Natura Pirineus: *Everyday Chemistry* project, Esterri d'Àneu July 2013

## ACHIEVEMENTS

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Illinois Distinguished Fellowship (2022)

Departmental Fellowship (2022)

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

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

Presented Flash Talk "Mineral weathering and nutrient cycling at early stages of soil development" at Goldschmidt Conference (2021)

## LEADERSHIP

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**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

**Tutor at Programa Aditus, Spain**

February 2020 - Present

- Weekly advising meetings with 2 Spanish students throughout their application process to US universities

## SKILLS

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

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

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

Arts: Spanish guitar and singing (2011 - Present)