

# AUGUSTO LIMA

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## EDUCATION

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### University of Bergen

#### Master of Science, Earth Sciences

Thesis: Assessing the Influence of Supraglacial Lakes to the Mass Balance of Tapado Glacier.

*Skills/Subjects:* Geological Mapping, Paleoclimate Reconstruction, Alpine Climate Research and Field Work, Cryosphere Modelling, GIS techniques, Remote Sensing Techniques, Python Programming, 3D Modeling, Data Visualization, UAV-based field work.

### University of São Paulo

#### Bachelor's degree, Geography

Thesis: Assessing the Correlation in Between Land Surface Temperature and Air Temperature

*Skills/Subjects:* Cartography, GIS techniques, Remote Sensing Applied to Ecology and Geography, Urban and Rural Development, Biogeography, Urban Planning, Geomorphology, Pedology, Climatology, Environmental Geology, Management of Natural Resources

## SUMMER SCHOOLS AND STAYS ABROAD

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### University of Amsterdam | October 2025

#### Staff Mobility for Training

*Skills/Subjects:* GIS/RS modules for ecological and environmental applications; universal design education; coordination of collaborations.

### Charles University | Sep 2022 – Feb 2023

#### Erasmus+ Program at the Geography Department

*Skills/Subjects:* Data Analysis in Python and R Programming, SQL for geodatabase, JavaScript for Google Earth Engine, Remote Sensing Techniques, GIS techniques, 3D modelling and geovisualization.

### University of La Serena | Dec 2022

#### Summer School

*Skills/Subjects:* Field and computer-based methods for cryosphere monitoring, High-altitude glaciers dynamics, Photogrammetry Techniques on Remote Sensing Data, Geomorphological Mapping, Topographic and Kinematic Changes.

## **University of Bergen | Jan 2021 – Dec 2021**

### **International Exchange Program at the Geography Department**

*Skills/Subjects:* GIS techniques, Remote Sensing Techniques, Sustainable Land Use, Climate and Environmental Changes, Hydrology, Groundwater and Geohazards

## **RESEARCH AND TEACHING EXPERIENCE**

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### **University of Bergen | Mar 2024 – Present**

#### **Mountains in Motion Lab, Research Assistant**

##### ***Glacimontis***

- Developed the GLACIMONTIS geodatabase of global glacier extents of the Last Glacial Maximum
- Designed and implemented FAIR metadata and attribute table structures for geodatabases
- Led the preparation and publication of the GLACIMONTIS manuscript in Nature Scientific Data
- Coordinated international collaboration through online and in-person project meetings with co-authors
- Orally presented methods and findings at several conferences and seminars, including EGU25
- Contributed to successful grant applications supporting conference participation
- Prepared manuscript outreach strategy through newsletter items, social platforms and seminars.

##### ***GeoBridge***

- Co-organized a GIS community between UiB and University of Amsterdam (UvA) researchers
- Built user-friendly web interface for *GeoBridge* Project ([mountains-in-motion.github.io/geobridge/](https://mountains-in-motion.github.io/geobridge/))
- Organized and hosted interdisciplinary biweekly web seminars (February 2026 – June 2026)
- Co-organized workshop on science communication through StoryMaps on ArcGIS
- Co-organized workshop on UAV and remote sensing for mountain environmental research
- Co-organized research visit of UvA researchers and fieldwork week in Finse
- Managed the dissemination of activities
- Co-managed the project budget

##### ***Eco-Space***

- Co-developed the grant application for the **Universell Utforming i Høyere Utdanning 2025**
- Co-developed course structure and teaching materials for GIS/RS in biosciences
- Co-coordinated hiring process of research interns, from job advertisement to selection process
- Co-supervised research interns and master's students on the development of educational modules
- Elaborated educational materials of GIS/RS applied to ecology and environmental geography
- Established stakeholder collaboration with Vestland Fylkeskommune
- Disseminated ECO-SPACE at international and national conferences
- Co-managed the project budget

##### ***Paleoglacier Modelling***

- Initiated external collaborations focused on the synthesis and data analysis of paleoglacier simulations

- Leading a literature review and data-analysis manuscript on numerical paleoglacier modelling
- Co-authoring a manuscript on best-practices for empirical paleoglacier reconstructions
- Contributed to the setup and application of the AI-driven Instructed Glacier Model (IGM).
- Designed and integrated GIS-based spatial validation methods into model evaluation
- Co-led and submitted manuscript on mountain glacier evolution since the last interglacial
- Disseminated research outputs in international conferences and seminars

### ***Bumblebee Project***

- Implemented ArcGIS Field Maps workflows to support standardized field data collection
- Prepared, coordinated, and supervised field mapping activities in alpine landscapes
- Processed and organized field data collection, including elaboration of field reports
- Assisted UAV survey and contributed to deep-learning supervised classification workflows
- Supported collaboration with master's students and project partners
- Co-coordinated fieldwork logistics

### ***PPF-Alpine***

- Co-authoring manuscript on alpine biome modelling using {tabs} R package
- Applied the {Makurhini} R package to calculate landscape connectivity of alpine biome through time

## **University of Bergen | Aug 2023 – Nov 2023**

### **Practicum GIS Assistant, Department of Earth Sciences**

- Aided students in their projects and assignments within GEO205/GOEV215 courses
- Worked closely with students in methodological and practical challenges related to GIS/RS

## **RELATED PROFESSIONAL EXPERIENCE**

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### **GEOJÁ | Jan 2019 – Jan 2021**

#### **GIS Junior Analyst, GIS Analyst**

- Created land use and occupation maps for governmental urban planning and croplands
- Developed methodologies, tutorials and workshops to improve mapping efficiency
- Performed quality control assessments on GIS data and maps
- Joined meetings with stakeholders from private and public sector
- Trained staff on mapping methodologies

### **University of Sao Paulo | Jun 2016 – Jun 2017**

#### **GIS intern**

- Created GIS maps for natural tourism, cultural heritage sites, routes, and points of interest to support tourism planning for the Secretariat of Tourism

## **Geological Museum of Sao Paulo | Feb 2016 – Mar 2017**

### **Lecturer and Recreation Intern**

- Delivered educational guided tours through museum exhibitions for school groups and visitors
- Presented lectures to schools on diverse Earth science topics

## **SEMINARS AND CONFERENCES**

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**EGU General Assembly, 2026 – Austria | Oral Presentation | doi: 10.5194/egusphere-egu26-19769**

**EGU General Assembly, 2026 – Austria | Oral Presentation | doi: 10.5194/egusphere-egu26-21271**

**EGU General Assembly, 2026 – Austria | Co-authorship | doi: 10.5194/egusphere-egu26-18020**

**Western US Paleoglacier Winter Series, 2026 – United States | Oral Presentation**

**BIO Early Career Community, 2025 – Norway | Poster Presentation**

**GeoBridge Seminar Series, 2025 – Norway | Oral Presentation**

**EGU General Assembly, 2025 – Austria | Oral Presentation | doi: 10.5194/egusphere-egu25-20104**

**EECRG Lunch Talk, 2025 – Norway | Oral Presentation**

**Western US Paleoglacier Winter Series, 2025 – United States | Oral Presentation**

**Bjerknes Annual Meeting, 2024 – Norway | Oral Presentation**

**EECRG Lunch Talk, 2024 – Norway | Oral Presentation**

**EGU General Assembly, 2024 – Austria | Co-authorship | doi: 10.5194/egusphere-egu24-13473**

**XVI Colóquio de Estudantes de Pós-graduação da USP, 2023 – Brazil | Oral Presentation**

**GIS/Remote Sensing Workshop Group Get Together, 2023 – Norway | Oral Presentation**

**International Workshop on the Greenland Ice Sheet, 2023 – Bergen | Volunteered**

**Panorama Atual dos Projetos de Pesquisa Integrados, 2022 – Brazil | Oral Presentation**

## **AWARDS AND GRANTS**

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**Universell Utforming i Høyere Utdanning 2025 | Project Proposal Grant | NOK 150,000.00**

**Student4Studen Summer School 2025 | Registration Waiver | €450.00**

**EGU General Assembly 2025 | Registration Waiver, Travel Support | €1025.00**

**CHESS Summer School 2022 | Travel Grant | Full coverage of expenses**

**AUSPIN Entrepreneur Scholarship | Research Mobility Grant | R\$ 42,000.00**

**Unified Scholarship Program | Internal Research Support | R\$ 5,500.00**

## **WORKSHOPS AND COURSES**

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**Connectivity Workshop – Environmental Landscape Metrics | Norway, 2026**

**Story Maps Workshop in ArcGIS Pro and Online | Norway, 2026**

**Introduction to Peer Teaching for Teaching Assistants and Group Leaders | Norway, 2025**

**UAV and Remote Sensing Applications in Mountain Environments | Norway, 2025**

**How to Write and Publish Scientific Papers** | Norway, 2025  
**QGreenland Educator Workshop** | Online, 2025  
**Multi-Geohazard Mapping Workshop** | Online, 2025  
**Universal Design of ICT Solutions** | Norway, 2025  
**From Nature Crisis to Solutions: Norway's road to the Nature Deal** | Norway, 2025  
**Crash Course in Data Visualisation** | Norway, 2024  
**Best Practices to Building an Effective Code of Conduct** | Austria, 2025  
**How to Write, Revise and Publish your Manuscript** | Austria, 2025  
**Introduction to Python for Earth System Science** | Austria, 2025  
**Ecological Data Collection from 360 Degree Images Using the Pannotator R Package** | Online, 2024  
**Geospatial Artificial Intelligence Workshop** | Norway, 2024  
**Effortless Academic Webinar** | Online, 2024

## SCIENCE COMMUNICATION

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[Mapping the world's vanished glaciers](#) at Bjerknæs Centre for Climate Research, 2026  
[Mountain glacier extents at the Last Glacial Maximum](#) at Springer Nature Research Communities, 2026  
[GeoBridge seminar series](#) | [May](#), [April 1](#), [April 2](#), [March 1](#), [March 2](#), [February](#), 2026  
[The Art of StoryMapping](#) | Nyhetsbrev – Institutt for biovitenskap, 2026  
[Meet our new SAC member: Erika Coppola](#) (*mentioned*) at Bjerknæs Centre for Climate Research, 2024  
[The Mini-Encyclopedia of the Páramos](#) | Translation to English (*in development*)  
[Glaciers from the past](#) | ArcGIS StoryMaps (*in development*)

## JOURNAL PUBLICATIONS

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A.C. Lima, H.E. Dulfer, A.C.L. Hughes, M. Margold, I. Barr, B. Laabs, S.G.A. Flantua. Mountain glacier extents at the Last Glacial Maximum. *Nature Scientific Data* **13**, 629 (2026). <https://doi.org/10.1038/s41597-026-06841-z>

A.C. Lima, E. Galvani, J.P.A Gobo, C.A Wollmann (2022). Comparison between air temperature and land surface temperature for the city of São Paulo, Brazil. *Atmosphere*, 13(3), 491. <https://doi.org/10.3390/atmos13030491>

S. Barndon, A.C. Lima, D.M. Chandler, A.T. Wiersma, Tancrede P.M. Leger, R.P. Pratz, E. S. Rentier, S.G.A. Flantua (*in review*). Mountain glacier evolution since the last interglacial. *Earth System Science Data*. *Pre-print available at*: <https://doi.org/10.5281/zenodo.18195704>.

E.S. Rentier, S. Barndon, J. De Groeve, H. Hooghiemstra, A.C. Lima, O. Mottl, S. Norder, L.C. Pacheco-Riaño, K.F. Rijdsdijk, L. Schultz, J.A. Grytnes, S.G.A. Flantua. Redefining alpine biogeography: global dynamics of the alpine biome over the last 120.000 years (*in preparation*).

O. Halis, A.C. Lima, L. Yingkui, S.G.A. Flantua (*in preparation*). An extensive review of landform–ice surface profile models applications and methods in reconstructing paleoglaciers.

A.C. Lima, O. Halis, L. Yingkui, S.G.A. Flantua (*in preparation*). Modelling mountain glaciers through time: a review of numerical paleoglacier simulations in mountain ranges.

F. Moreno, A.C. Lima, Á. Ayala, G. Navarro, S. MacDonell, B.A Robson (*in preparation*). The Role of Ice Cliffs in the Mass Loss of a Debris-Covered Glacier in the Semiarid Andes, Chile.

## DATABASE PUBLICATIONS

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A.C. Lima, H.E. Dulfer, A.C.L. Hughes, M. Margold, I. Barr, B. Laabs, S.G.A. Flantua. (2025) GLACIMONTIS [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.15600659>

Barndon, S., Lima, A., Flantua, S., Rentier, E., Prats, R., Wiersma, A., Leger, T., Chandler, D. (2026). Evolution of mountain glaciers since the last interglacial [Data set]. NIRD RDA. <https://doi.org/10.11582/2026.juu0pnt4>

A.C. Lima, S. Barndon, D.M. Chandler, A.T. Wiersma, Tancrede P.M. Leger, R.P. Pratz, E. S. Rentier, S.G.A. Flantua (2026). Animations of transient mountain glacier extent since the last interglacial. Copernicus Publications, [https://doi.org/10.5446/s\\_2022](https://doi.org/10.5446/s_2022)

## CONFERENCE PUBLICATIONS

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Lima, A. C., Wein, T., van Hecke, M., and Flantua, S. G. A (2026). ECO-SPACE: Geospatial Competence and Education in Biosciences, EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-21271, <https://doi.org/10.5194/egusphere-egu26-21271>

Lima, A. C., Barndon, S., Chandler, D. M., Yingkui, L., and Flantua, S. G. A. (2026). Validation Practices in Mountain Palaeoglacier Modelling, EGU General Assembly 2026, Vienna, Austria, 3–8 May 2026, EGU26-19769, <https://doi.org/10.5194/egusphere-egu26-19769>

Lima, A., Margold, M., L.C. Hughes, A., Dulfer, H., Barr, I., Rentier, E., Laabs, B., and G.A. Flantua, S. (2025). Global geodatabase of mountain glacier extents at the Last Glacial Maximum , EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-20104, <https://doi.org/10.5194/egusphere-egu25-20104>

Ayala, Á., Robson, B., MacDonell, S., Navarro, G., Schaffer, N., Segovia, A., Petlicki, M., Kinnard, C., Schauwecker, S., Casassa, G., Vivero, S., and Lima, A.C. (2024). Monitoring the physical processes driving the mass loss of Tapado Glacier, Desert Andes of Chile, EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-13473, <https://doi.org/10.5194/egusphere-egu24-13473>

## REFERENCES

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