

C.V.

Dr. João António Santos
3014 English Oak Circle
Stockton, CA 95209
Phone: (209) 403-1154
Email: joao.santos@sjsu.edu
Webpage: <https://www.joaosantosgeo.com>

Research Interests

Glacial and Planetary Geomorphology, Paleoclimatology, and Remote Sensing.

Education

-PhD, Geography, University of Coimbra (Portugal, Europe) (Grade: Approved with Distinction). 2009. Dissertation: Fluvial Geomorphology and Quaternary Evolution of the Mondego River Basin, Central Portugal.

-MA, Geography, Kent State University (Ohio, U.S.A) (GPA: 3.9). 2003. Thesis: Glacial Geomorphology and Sedimentology of the Kent Interlobate Complex, NE Ohio.

-BS, Geography, Brigham Young University (Utah, U.S.A) (GPA: 3.6). 2001.

Work Experience

-Lecturer, Department of Geology, San Jose State University (California, U.S.A), August 2015 to Present.

Lecturer in the following courses:

- Planetary Geology
- Natural Hazards
- Environmental Geology
- Introduction to Earth Science

-Adjunct Instructor, Department of Geography, South Dakota State University (South Dakota, U.S.A), January 2013 to Present.

Instructor in the following courses:

- Physical Geography: Weather and Climate (online)
- Physical Geography: Natural Landscapes (online)

-Adjunct Lecturer, Department of Geography, Bridgewater State University (Massachusetts, U.S.A), September 2014 to June 2015.

Lecturer in the following courses:

- Environmental Geography
- Climatology
- Seminar: Glaciers and Climate Change

-Post-Doctoral Fellow, University of Coimbra (Portugal, Europe) and Oklahoma State University (Oklahoma, U.S.A), January 2010 to January 2013. Post-Doctoral Project: Holocene Glacial and Climatic History of College Fjord, South-Central Alaska.

-Adjunct Instructor, Department of Earth Science, Utah Valley University (Utah, U.S.A), January 2011 to May 2011.

Instructor in the following courses:

- Introduction to (Physical) Geology
- World Regional Geography

-Graduate Research Assistant in Glacial and Fluvial Geomorphology, Department of Geography, University of Coimbra (Portugal, Europe), September 2004 to September 2008.

-Visiting Instructor, Catholic University of Braga (Portugal, Europe), Spring Semester of 2006.

Instructor in the following course:

- Remote Sensing and GIS

-Visiting Instructor, Department of Geography, Brigham Young University (Utah, U.S.A), Spring Semester of 2003.

Instructor in the following course:

- Geomorphology

-Graduate Teaching Assistant, Department of Geography, Kent State University (Ohio, U.S.A), August 2001 to December 2002.

Graduate Teaching Assistant in the following courses:

- Introduction to Geography
- Physical Geography
- Climatology
- Geography of Asia

-Teaching Assistant and Weather Observer, Department of Geography, Brigham Young University (Utah, U.S.A), August 1999 to May 2001.

Teaching Assistant in the following courses:

- Physical Geography
- World Regional Geography

Weather Observer:

- Daily weather measurement (temperature, humidity, atmospheric pressure, wind speed and direction, evaporation, precipitation, snowfall and snow depth), observation (cloud type and sky conditions) and report (National Weather Service, ABC and NBC television stations).

-Quality Department Assistant Manager, Siemens (Portugal, Europe), July 1997 to September 1997.

Professional Conferences Presentations

-The Annual Conference (2023) of the Cordilleran Section of the Geological Society of America. Presentation: Genesis of Titan's rias from the Ligeia Mare Puget Sinus region using Earth analogs from NW Spain.

-The Annual Conference (2023) of the Cordilleran Section of the Geological Society of America. Presentation: Timing of deglaciation in the Serra do Gerês Mountains (NW Portugal National Park) based on AMS dating.

-The Annual Conference (2022) of the Rocky Mountain and Cordilleran Sections of the Geological Society of America. Presentation: Till macrofabric and grain size analysis of glacial diamictons in the Serra da Cabreira Mountains, NW Portugal.

-The Annual Conference (2019) of the Cordilleran Section of the Geological Society of America. Presentation: Distinguishing diamictons using till macrofabric and grain size analysis: A case study in the northern Serra do Gêres Mountains, NW Iberian Peninsula.

-The Annual Conference (2017) of the Geological Society of America. Presentation: Till Macrofabric Analysis of Glacial Deposits in the southern Serra do Gerês Mountains, NW Iberian Peninsula.

-The 1st International Conference (2016) on Research for Sustainable Development in Mountains Regions (X European Mountain Convention). Presentation: Macrofabric analysis in relict rock-glaciers, Cantabrian Mountains, Northwestern Spain.

-The Annual Conference (2016) of the Cordilleran Section of the Geological Society of America. Presentation: Till Fabric and Grain Size Analysis of Cape Cod Bay Lobe Glacial Deposits in Eastern Plymouth County, Eastern Massachusetts.

-The Annual Meeting (2016) of the Association of American Geographers. Presentation: Genesis of Glacial Sediments in the Gerês Mountains of Northwestern Portugal and Northwestern Spain.

-The 5th Conference (2015) of the Iberian Section of the International Permafrost Association. Presentation: Estudio de la estructura interna de un glaciar rocoso relictado en la Sierra de Sentiles, San Isidro, mediante el análisis de fábrica, Cordillera Cantábrica, España.

-The Annual Conference (2015) of the Northeastern Section of the Geological Society of America. Presentation: Till Fabric Analysis and Origin of Late Quaternary Moraines in the Serra da Peneda Mountains, NW Portugal.

-The Annual Conference (2015) of the Northeastern Section of the Geological Society of America. Presentation: Till Fabric Analysis and Origin of Portage Glacier Little Ice Age Moraines, South-Central Alaska.

-The 8th International Conference on Geomorphology (2013) of the International Association of Geomorphologists (Paris, France). Presentation: Till Fabric and Grain Size Analysis of Glacial Sequences in a Complex Paleoglacial System: The Case Study of the Upper Sil Valley, Cantabrian Mountains, Northwest Spain.

-The Bi-Annual Conference (2013) of the Association of Portuguese Geomorphologists (Europe). Presentation: Genesis of the Alto Vez Glacial Valley Pleistocene Moraines, Peneda Mountains, Northwest Portugal.

-The Annual Conference (2011) of the Rocky Mountain and Cordilleran Sections of the Geological Society of America. Presentation: Holocene Glacial Fluctuations in College Fjord, South-Central Alaska.

-The 1st International Conference (2011) of the Portuguese Quaternary Association (Europe). Presentation: Distinguishing Lodgment Till from Melt-Out Till using Till Fabric and Grain Size Analysis: A Case Study in Portage Glacier Little Ice Age Moraines, South-Central Alaska.

-The Bi-Annual Conference (2010) of the Association of Portuguese Geomorphologists (Europe). Presentation: Holocene Glacial History of College Fjord, South-Central Alaska.

-The Annual Conference (2010) of the Rocky Mountain Section of the Geological Society of America. Presentation: Alluvial Terraces of the Lower Mondego River Valley: Product of Late Quaternary Eustatic and Climatic Fluctuations in Central Portugal.

-The Annual Conference (2007) of the Rocky Mountains-Great Plains Division of the Association of American Geographers. Presentation: Late Quaternary Alluvial History of the Mondego River, Central Portugal.

-The 1st Conference (2007) of the Iberian Section of the International Permafrost Association. Presentation: On the Origins of Portage Glacier Little Ice Age Moraines, Alaska.

-The Annual Conference (2006) of the Rocky Mountain Section of the Geological Society of America. Presentation: Quaternary Fluvial Geomorphology and History of the Lower Mondego River Valley, Portugal.

-The Annual Conference (2006) of the Rocky Mountain Section of the Geological Society of America. Presentation: Little Ice Age Glacial Geomorphology and Sedimentology of Portage Glacier, Alaska.

-The Annual Conference (2006) of the North-Central Section of the Geological Society of America. Presentation: Reconstructing Little Ice Age Glacial Histories for Crescent and Amherst Glaciers, College Fjord, Southern Alaska.

-The Bi-Annual Conference (2004) of the Association of Portuguese Geomorphologists (Europe). Presentation: Génese da Moreia Interlobatica de Kent, Ohio.

-The Annual Conference (2004) of the South-Central Section of the Geological Society of America. Presentation: On the Genesis of the Kent Interlobate Moraine, Ohio.

-The Annual Conference (2002) of the East Lakes Division of the Association of American Geographers. Presentation: The Glacial Geomorphology of the Kent Interlobate Moraine, Ohio.

-The Bi-Annual Conference (2002) of the American Quaternary Association (in Anchorage, Alaska). Presentation: Genesis of the Kent Interlobate Moraine, Northeastern Ohio.

-The Annual Conference (2002) of the North-Central and Southeast Sections of the Geological Society of America. Presentation: Genesis of the Kent Interlobate Moraine, preliminary results.

-The Annual Conference (2001) of the East Lakes Division of the Association of American Geographers. Presentation: The Glaciomarine Environment, a review.

List of Publications

Thesis and Dissertation

-Doctoral Degree Dissertation: Fluvial Geomorphology and Quaternary Evolution of the Mondego River Basin, Central Portugal (2009). 307 p.

-Master's Degree Thesis: Glacial Geomorphology and Sedimentology of the Kent Interlobate Complex, Kent, Ohio (2003). 161 p.

Peer-Reviewed Publications

-Santos, J.A., Vieira, G.T., Santos-González, J., Woronko, B. and Redondo-Vega, J.M., 2022. Macrofabric and grain size analysis of moraines and other till deposits in the Serra da Estrela Mountains, central Portugal. *Physical Geography*, Vol. 43, 238–264. DOI: 10.1080/02723646.2020.1838136.

-Cunha, L., Santos, J.A. and Ramos, A., 2020. The Mondego River and Its Valley. In: Vieira G., Zêzere J., Mora C. (eds) *Landscapes and Landforms of Portugal*. World Geomorphological Landscapes. Springer, Cham. p. 175–184. https://doi.org/10.1007/978-3-319-03641-0_14.

-González-Gutiérrez, R.B., Santos-González, J., Santos, J.A., Cano, M., Irwin, J.R., Gómez-Villar, A. and Redondo-Vega, J.M., 2019. Glacial geomorphology of the Sancenas karst massif (Cantabrian Mountains, Northern Spain). *Geografía Física e Dinámica Cuaternaria*, Vol. 42(1), 71–86. DOI: 10.1130/abs/2019CD-328883.

-Santos-González, J., González-Gutiérrez, R.B., Santos, J.A., Peña-Pérez, S.A., Gómez-Villar, A. and Redondo-Vega, J.M., 2018. Topographic, lithologic and glaciation style influences on paraglacial processes in the upper Sil and Luna catchments, Cantabrian Mountains, NW Spain. *Geomorphology*, Vol. 319, 133–146. DOI: 10.1016/j.geomorph.2018.07.019.

-Santos, J.A., Santos-González, J., Redondo-Vega, J.M. and Irwin, J.R., 2017. Glacial deposits in the Serra do Gerês Mountains (NW Iberian Peninsula): till macrofabric analysis. *Physical Geography*, Vol. 38, 263–285. DOI: 10.1080/02723646.2016.1276879.

-Santos, J.A., Santos-González, J. and Redondo-Vega, J.M., 2015. Till Fabric Analysis and Origin of Late Quaternary Moraines in the Serra da Peneda Mountains, NW Portugal. *Physical Geography*, Vol. 36, 1–18. DOI: 10.1080/02723646.2014.961218.

-Santos-González, J., Santos, J.A., González-Gutiérrez, R.B., Redondo-Vega, J.M. and Gómez-Villar, A., 2013. Till Fabric and Grain-Size Analysis of Glacial Sequences in the Upper Sil River Basin, Cantabrian Mountains, NW Spain. *Physical Geography*, Vol. 34, 471–490. DOI: 10.1080/02723646.2013.855989.

-Santos, J.A., 2012. Late Wisconsinan Glacial Geomorphology of the Kent Interlobate Complex, Ohio, U.S.A. *Finisterra*, Vol. XLVII, No. 93: 65–84.

-Santos, J.A. and Cunha, L.J., 2012. Till Fabric Analysis and Origin of Portage Glacier Little Ice Age Moraines, South-Central Alaska. *Polar Geography*, Vol. 35, 65–81. DOI: 10.1080/1088937X.2012.663413.

-Santos, J.A., Cunha, L.J., Cordova, C.E. and Wiles, G.C., 2010. Holocene Glacial History of College Fjord, South-Central Alaska. *Polar Geography*, Vol. 33, 101–114. DOI: 10.1080/1088937X.2010.543551.

-Santos, J.A. and Cordova, C.E., 2009. Little Ice Age Glacial Geomorphology and Sedimentology of Portage Glacier, South-Central Alaska. *Finisterra*, Vol. XLIV, No. 87: 95–108.

-Santos, J.A., 2006. Genesis of the Kent Interlobate Moraine, Ohio. In: *Geomorfologia, Ciência e Sociedade*. Associação Portuguesa de Geomorfólogos, Vol. 3, 49–54.

Conference Proceedings and Published Abstracts

-Santos, J.A. and Pertl, B., 2023. Genesis of Titan's rias from the Ligeia Mare Puget Sinus region using Earth analogs from NW Spain. *Geological Society of America Abstracts with Programs, Cordilleran Section (119th) Annual Meeting, May 2023; Vol. 55, No. 4*. DOI: 10.1130/abs/2023CD-386580

-Santos, J.A., Santos-González, J., González-Gutiérrez, R.B. and Araújo, A., 2023. Timing of deglaciation in the Serra do Gerês Mountains (NW Portugal National Park) based on AMS dating. *Geological Society of America Abstracts with Programs, Cordilleran Section (119th) Annual Meeting, May 2023; Vol. 55, No. 4*. DOI: 10.1130/abs/2023CD-386578

-Santos, J.A., Gomes, A., Costa, J. and Figueira, E., 2022. Till macrofabric and grain size analysis of glacial diamictons in the Serra da Cabreira Mountains, NW Portugal. *Geological Society of America Abstracts with Programs, Rocky Mountain Section (72nd) and Cordilleran Section (118th) Joint Annual Meeting, March 2022; Vol. 54, No. 2, p. 29*. DOI: 10.1130/abs/2022CD-373413.

-Santos, J.A., Santos-González, J., Redondo-Vega, J.M. and Irwin, J.R., 2019. Distinguishing diamictons using till macrofabric and grain size analysis: A case study in the northern Serra do Gêres Mountains, NW Iberian Peninsula. *Geological Society of America Abstracts with Programs, Cordilleran Section (115th) Annual Meeting, May 2019; Vol. 51, No. 4*. DOI: 10.1130/abs/2019CD-328883.

- Santos, J.A., Santos-González, J., Redondo-Vega, J.M. and Irwin, J.R., 2017. Till Macrofabric analysis of glacial deposits in the southern Serra do Gerês Mountains, NW Iberian Peninsula. *Geological Society of America Abstracts with Programs, Annual Meeting, October 2017*; Vol. 49, No. 6. DOI: 10.1130/abs/2017AM-293764.
- González-Gutiérrez, R.B., Santos-González, J., Santos, J.A., Redondo-Vega, J.M., Gómez-Villar, A. and Irwin, J.R. 2016. Macro-fabric analysis in relict rock glaciers, Cantabrian Mountains, Northwestern Spain. *Proceedings of the 1st International Conference on Research for Sustainable Development in Mountains Regions (X European Mountain Convention), October 2016*; p. 124.
- Santos, J.A., 2016. Till Fabric and Grain Size Analysis of Cape Cod Bay Lobe Glacial Deposits in Eastern Plymouth County, Eastern Massachusetts. *Geological Society of America Abstracts with Programs, Cordilleran Section (112th) Annual Meeting, April 2016*; Vol. 48, No. 4. DOI: 10.1130/abs/2016CD-274098.
- González-Gutiérrez, R.B., Santos-González, J., Gómez-Villar, A., Santos, J.A. and Redondo-Vega, J.M., 2015. Estudio de la estructura interna de un glaciar rocoso relictos en la Sierra de Sentiles, San Isidro, mediante el análisis de fábrica, Cordillera Cantábrica, España. *Proceedings of the 5th Conference of the Iberian Section of the International Permafrost Association, June 2015*; p. 38.
- Santos, J.A., Santos-González, J. and Redondo-Vega, J.M., 2015. Till Fabric Analysis and Origin of Late Quaternary Moraines in the Serra da Peneda Mountains, NW Portugal. *Geological Society of America Abstracts with Programs, Northeastern Section (50th) Annual Meeting, March 2015*; Vol. 47, No. 3, p. 104.
- Santos, J.A., 2015. Till Fabric Analysis and Origin of Portage Glacier Little Ice Age Moraines, South-Central Alaska. *Geological Society of America Abstracts with Programs, Northeastern Section (50th) Annual Meeting, March 2015*; Vol. 47, No. 3, p. 124.
- Santos, J.A., Cunha, L.J., Vieira, A.A. and Bento-Gonçalves, A.J., 2013. Genesis of the Alto Vez Glacial Valley Pleistocene Moraines, Peneda Mountains, Northwest Portugal. *Proceedings of the 6th Bi-Annual Conference of the Association of Portuguese Geomorphologists, February 2013*; pp. 57–62.
- Santos, J.A., Cunha, L.J., Cordova, C.E. and Wiles, G.C., 2011. Holocene Glacial Fluctuations in College Fjord, South-Central Alaska. *Geological Society of America Abstracts with Programs, Rocky Mountain Section (63rd) and Cordilleran Section (107th) Joint Annual Meeting, May 2011*; Vol. 43, No. 4, p. 8.
- Santos, J.A., Cunha, L.J. and Cordova, C.E., 2011. Distinguishing Lodgment Till from Melt-Out Till using Till Fabric and Grain Size Analysis: A Case Study in Portage Glacier Little Ice Age Moraines, South-Central Alaska. *Portuguese Quaternary Association Programs and Abstracts, 1st International Conference, December 2011*; p. 29.

-Santos, J.A., Cunha, L.J., Cordova, C.E. and Wiles, G.C., 2010. História Glaciária Holocénica do Colégio Fjord, Centro-Sul do Alasca. *Proceedings of the 5th Bi-Annual Conference of the Association of Portuguese Geomorphologists, December 2010*; pp. 31–36.

-Santos, J.A. and Cunha, L.J., 2010. Alluvial Terraces of the Lower Mondego River Valley: Product of Late Quaternary Eustatic and Climatic Fluctuations in Central Portugal. *Geological Society of America Abstracts with Programs, Rocky Mountain Section (62nd) Annual Meeting, April 2010*; Vol. 42, No. 3, p. 62.

-Santos, J.A. and Cunha, L.J., 2007. Late Quaternary Alluvial History of the Mondego River, Central Portugal. *Association of American Geographers Programs and Abstracts, Great Plains - Rocky Mountain Division Annual Meeting, September 2007*; p. 32.

-Santos, J.A. and Cordova, C.E., 2006. Little Ice Age Glacial Geomorphology and Sedimentology of Portage Glacier, Alaska. *Geological Society of America Abstracts with Programs, Rocky Mountain Section (58th) Annual Meeting, May 2006*; Vol. 38, No. 6, p. 35.

-Santos, J.A. and Cunha, L.J., 2006. Quaternary Fluvial Geomorphology and History of the Lower Mondego River Valley, Portugal. *Geological Society of America Abstracts with Programs, Rocky Mountain Section (58th) Annual Meeting, May 2006*; Vol. 38, No. 6, p. 35.

-Johnson, P.E., Wiles, G.C., Lowell, T.V., Santos, J.A., Cunha, L.J. and Rochette, A., 2006. Reconstructing Little Ice Age Glacial Histories for Crescent and Amherst Glaciers, Colégio Fjord, Southern Alaska. *Geological Society of America Abstracts with Programs, North-Central Section (40th) Annual Meeting, April 2006*; Vol. 38, No. 4, p. 25.

-Santos, J.A., 2004. On the origins of the Kent Interlobate Moraine, NE Ohio. *Geological Society of America Abstracts with Programs, South-Central Section (38th) Annual Meeting, February 2004*; Vol. 36, No. 1, p. 28.

-Santos, J.A., 2002. Genesis of the Kent Interlobate Moraine, Northeastern Ohio. *American Quaternary Association Program and Abstracts, 17th Annual Meeting, August 2002*; p. 113.

-Santos, J.A., 2002. Genesis of the Kent Interlobate Moraine, preliminary results. *Geological Society of America Abstracts with Programs, North-Central Section (36th) and Southeastern Section (51st) Joint Annual Meeting, March 2002*; Vol. 34, No. 2, p. 8.

Other Publications

-Cunha, L.J., Rochette, A. and Santos, J.A., 2006. *O Alasca em Português. Expedição ao Colégio Fjord*. Rua Larga, Revista da Reitoria da Universidade de Coimbra, No. 11, Coimbra, pp. 18–19.

Research Grants

2010-2015

-FCT (Foundation for Science and Technology, Portugal, Europe) individual research grant (€90,000 = ~ \$117,000). Project: Holocene Glacial and Climatic History of College Fjord, South-Central Alaska.

2004-2008

-FCT (Foundation for Science and Technology, Portugal, Europe) doctoral dissertation research grant (€51,000 = ~ \$76,500). Project: Fluvial Geomorphology and Quaternary Evolution of the Mondego River Basin, Central Portugal.

2005

-National Geographic Society (Global Exploration Fund) research grant (\$10,000). Project: Holocene Glacial and Climatic History of College Fjord, South-Central Alaska.

2004

-Tweedie Family research and travel grant (\$500). Project: Holocene Glacial and Climatic History of College Fjord, South-Central Alaska.

Professional Memberships

- GSA (Geological Society of America).
- AMQUA (American Quaternary Association).
- APG (Association of Portuguese Geomorphologists).

Current Research Projects

- Holocene Glacial and Climatic History of College Fjord, South-Central Alaska.
- On the Origins of Portage Glacier Little Ice Age Moraines, South-Central Alaska.
- Glacial Geomorphology of the Peneda, Cabreira, and Gerês Mountains, NW Portugal.
- Genesis of Titan's Rias from the Ligeia Mare Puget Sinus Region.

Languages Spoken and Written

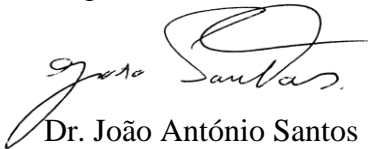
- English
- Spanish
- Portuguese
- French
- Italian

Service/Leadership

-Associate Editor in the Journal of Polar Geography (June 2011 to July 2017).

-Scientific Committee Member in the Center for Geographic Studies at the University of Coimbra (Portugal, Europe) (January 2010 to January 2013).

August 10, 2023.



Dr. João António Santos