

Santiago Munevar Garcia

291 McCormick Rd, Charlottesville, VA 22903 / (443) 824-4475 / sm9nq@virginia.edu

Education

University of Virginia	2019 –
Ph.D. candidate. Dept. of Environmental Sciences	
“Topographic controls on Antarctic Ice Sheet grounding line behavior – integrating models and observations”, under the advisement of Dr. Lauren Simkins	
University of Maryland, Baltimore County	2016 - 2018
B.S., Magna cum laude, Geography and Environmental Science	
Certificate in Geographic Information Science	
Community College of Baltimore County	2014 - 2016
A.S., Engineering	

Research appointments

University of Virginia – Research Assistant	2019 –
Quantification of bed roughness using bathymetric sets	
Mapping and characterization of glacial landforms from geophysical data	
University of Maryland Baltimore County – Research Assistant	2018
GIS Analyst for terrain and hydrologic features in the Gwynns Falls watershed	
Center for Urban Environmental Research and Education – Research Assistant	2018
Cartographer and Database Analyst for the ArchaeoGLOBE project	

Teaching experience & training

Undergraduate Research Mentor	Fall 2020 –
Teaching Assistant, EVSC 2801 – Fundamentals of Geology, Lab	Fall 2019-2021, Spring 2022
Teaching Assistant, EVSC 2800 – Fundamentals of Geology, Lecture	Fall 2020, Spring 2021
Teacher for Summer Enrichment Program, UVA, Grades 9-11 – Climate Change	Summer 2020-2021
Fundamentals of Learning for Science for Science Mentors	Spring 2021
Curricula development and translation for the Saturday Series Workshop	Spring 2021
Graduate Instructor Seminar on the Teaching of Writing	Fall 2020

Conference presentations

- Wiggins, T., [Munevar Garcia, S.](#), Lepp, A.P., Simkins, L.M., submitted. Morphometry of glacial lakes in North America. GSA 2022 North-Central/Southeastern Joint Section Meeting.
- Nitsche, F.O., Hogan, K.A., Graham, A.G.C., Minzoni, R.T., Smith, J.A., Hillenbrand, C.D., Simkins, L.M., Wellner, J.S., Larter, R.D., Anderson, J.B., Clark, R., Mawbey, E., Hopkins, B., Lepp, A.P., Marschalek, J., [Munevar Garcia, S.](#), Dorschel, B., Arndt, J.E., Gohl, K., Lee, W.S. New detailed bathymetry data from Amundsen Sea continental shelf reveal more comprehensive paleo ice flow pattern. Session C011: Boundary conditions and Earth-ice interaction beneath ice sheets and ice shelves, American Geophysical Union 2021.
- [Munevar Garcia, S.](#), Simkins, L.M., Falcini, F.A.M., Stearns, L.A., Rezvanbehbahani, S. Bed roughness impact on streaming ice-flow persistence. Poster Session 1A: Geology and Hydrology in Coastal and Glacial Environments, EnviroDay, Environmental Sciences Department, University of Virginia, 2021.
- [Munevar Garcia, S.](#), Simkins, L.M., Falcini, F.A.M., Stearns, L.A., Rezvanbehbahani, S. Bed roughness impact on streaming ice-flow persistence. Session C034: Sub-Ice-Sheet and Sub-Ice-Shelf Environments: Bridging the Gap Between Modern Observations and Geologic Records, American Geophysical Union 2020.
- Simkins, L.M., Greenwood, S.L., [Munevar Garcia, S.](#), Prothro, L.O., Anderson, J.B. A gaining and losing meltwater corridor in the subglacial environment. Session C001: Advances in Glacier Hydrology, American Geophysical Union 2020.

McKenzie, M., [Munevar Garcia, S.](#) Implications of glacial lineations: mapping and bed roughness across deglaciated terrestrial and marine landscapes. Midwest Glaciology Meeting 2020 (equal author contributions).

[Munevar Garcia, S.](#), Simkins, L.M., Falcini, F.A.M., Stearns, L.A., Rezvanbehbahani, S. Bed roughness impact on streaming ice-flow persistence. WAIS Workshop 2020.

Wellner, J.S., Larter, R., Graham, A., Hillenbrand, C.-D., Hogan, K., Minzoni, R., Nitsche, F., Smith, J., Andersin, J., Simkins, L.M., Clark, R., Fitzgerald, V., Hopkins, R., Lehrmann, A., Lepp, A., Marschalek, J., Mawbey, E., Kirkham, J., [Munevar Garcia, S.](#), Taylor, L. Initial Geologic Results from Thwaites Glacier Offshore Research (THOR) 2019 and 2020 Field Seasons. Geological Society of America Annual Meeting 2020.

Publications

Simkins, L.M., Greenwood, S.L., [Munevar Garcia, S.](#), Eareckson, E.A., Anderson, J.B., Prothro, L.O. (2021).

Topographic controls on channelized meltwater in the subglacial environment. *Geophysical Research Letters*, 48, e2021GL094678. [[link](#)]

ArchaeoGLOBE Project, 2019. Archaeological assessment reveals Earth's early transformation through land use. *Science*, 365, 897-902. 10.1126/science.aax1192

Published datasets

Simkins, L., Anderson, J., Eareckson, E., Greenwood, S., [Munevar Garcia, S.](#), Prothro, L. (2021) "Pennell Trough, Ross Sea bathymetry and glacial landforms" U.S. Antarctic Program (USAP) Data Center. <https://doi.org.10.15784/601474>

Field experience

Member of NBP 20-02 Science Party, Amundsen Sea, West Antarctica – 8 weeks

Spring 2020

Other professional appointments

Ecotone, Inc – Environmental Technician

2019

Development of watershed analyses and GIS products for the design team in charge of developing stream restoration plans

Community College of Baltimore County

Spring 2014 – Summer 2016

Registration's Office Assistant

Community Service

Virginia Scientist-Community Interface

Fall 2020

Review of sedimentation reports for the Mountain Valley Pipeline