Danilo Augusto Silva

PhD Candidate · Physical Oceanography

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Education

University of São Paulo — *São Paulo, SP*
PhD Physical Oceanography — *7/2019 - present*
- Advisor: Dr. Marcelo Dottori

University of São Paulo — *São Paulo, SP*
MSc Physical Oceanography — *1/2017 - 5/2019*
- Advisor: Dr. Marcelo Dottori

University of São Paulo — *São Paulo, SP*
BSc Undergraduate Degree — *3/2010 - 12/2016*
- Advisor: Dr. Marcelo Dottori

Professional Experience

2023-2023	**Short-term Research Visit**, University of Massachusetts - School for Marine Sciences and Technology (SMAST)
2019-2023	**Graduate Research Assistant**, Coastal Hydrodynamics Lab, University of São Paulo, SP
2017-2019	**Graduate Research Assistant**, Coastal Hydrodynamics Lab, University of São Paulo, SP
2015-2016	**Undergraduate Research Assistant**, Coastal Hydrodynamics Lab, University of São Paulo, SP
2014-2015	**Undergraduate Research Assistant**, Oceanographic Data Lab, University of São Paulo, SP
2011-2012	**Undergraduate Research Assistant**, Satellite Oceanography Lab, University of São Paulo, SP
2010 - 2011	**IT Auxiliar**, Media Coordination of University of São Paulo, SP

Research Experience

University of Massachusetts - School for Marine Sciences and Technology (SMAST) — *New Bedford, BOS*
Advisor: Dr. Avijit Gangopadhyay — *April 2023 - July 2023*
- Project: "Differences and similatities of Salinity Maximum Intrusions between Middle Atlantic Bight (USA) and South Brazil Bight (Brazil) "

University of São Paulo - Dept of Physical Oceanography — *São Paulo, SP*
Advisor: Dr. Marcelo Dottori — *Jul 2019 - Present*
- Dissertation: "Subsurface salt and warm intrusions at the South Brazil Bight: observational and numerical modeling"

University of São Paulo - Dept of Physical Oceanography — *São Paulo, SP*
Advisor: Dr. Marcelo Dottori — *Jan 2017 - May 2019*
- Dissertation: "Anomalous wind driven circulation on the south Brazil Bight during the 2014 summer"

Impacts of the Southwestern Atlantic on the South American Climate - The Oceanic Importance — *RV Alpha Crucis*
PI: Dr. Belmiro Mendes de Castro — *Aug, 2016*
- Activities: Deployment of an array of moored current meter line crossing the Brazil Current.

Challenger Project - South Atlantic Circumnavigation — *RV Alpha Delphini*
Advisor: Dr. Marcelo Dottori — *Jun, 2015*
- Activities: Testing glider's navigation system and releasing the RU29 - Rutger glider. More information at https://challenger.marine.rutgers.edu

Publications

Published

Silva, D. A., Sasaki, D. K., Dottori, M., da Silveira, I. C. A., Belo, W. C., and Martins, R. P. (2023). An inventory of salty and warm subsurface intrusions in the South Brazil Bight. Continental Shelf Research, 259, 104984.

Birocchi, P., **Silva, D. A.**, Sasaki, D. K., and Dottori, M. (2023). Estimating river discharge from rainfall satellite data through simple statistical models. Theoretical and Applied Climatology, 1-21.

Dottori, M., Sasaki, D. K., **Silva, D. A.**, Del–Giovannino, S. R., Pinto, A. P., Gnamah, M., ... and Moreira, D. L. (2023). Hydrographic structure of the continental shelf in Santos Basin and its causes: The SANAGU and SANSED campaigns (2019). Ocean and Coastal Research, 71.

Mendes, C. B., Cortez, T., Santos, C. S., Sobral‐Souza, T., Santos, A. D., Sasaki, D. K., **Silva, D. A.**, Dottori, M. and Andrade, S. C. (2022). Seascape genetics in a polychaete worm: Disentangling the roles of a biogeographic barrier and environmental factors. Journal of Biogeography, 49(12), 2296-2308.

Silva, Danilo A. and Dottori, M. (2021). The atmospheric blocking influence over the South Brazil Bight during the 2013–2014 summer. Regional Studies in Marine Science, 45, 101815.

Presentations

** presenting author; + mentored undergraduate*

Contributed Presentations

Silva, Danilo A., Avijit Gangopadhyay , Dalton K. Sasaki and Marcelo Dottori. 2023. Synoptic cross-shelf pathways of the mid-depth Salinity Maximum Intrusions in the South Brazil Bight (SBB). Gordon Research Conference - Coastal Dynamics. Poster presented at Smithfield, RI

Silva, Danilo A., Dalton K. Sasaki, Marcelo Dottori, Ilson C. A. da Silveira, Wellington C. Belo, Renato P. 2023. Martins. An inventory of salty and warm subsurface intrusions in the South Brazil Bight (SBB). Western Boundaries Current and Shelf interactions. Poster presented at Savannah, GA.

Silva, Danilo A., Dalton K. Sasaki, Marcelo Dottori, Ilson C. A. da Silveira, Wellington C. Belo, Renato P. Martins. Subsurface thermohaline intrusions at a mid-latitude continental shelf: descriptive climatology and double diffusion role. Ocean Sciences Meeting (virtual), 2022.

Silva, Danilo A.. 2021. Exploring wind-driven primary production through numerical modelling. Early Carrer Symposium, online.

Silva, Danilo A., Marcelo Dottori. 2018. Anomalous wind-driven circulation during the 2014 summer on the South Brazil Bight. Latin-American Physics of Estuarine and Coastal Ocean (LAPECO). Oral presentation at Florianópolis, Santa Catarina.

Silva, Danilo A., Marcelo Dottori, Belmiro M. de Castro. 2017. The fate of man-made radionuclides in a semi-enclosed basin. 10th International Workshop on Modeling the Ocean (IWMO). Poster presented at Santos, São Paulo.

Teaching Experience

Oct 2021	**Python for Undergraduates**, Lecturer	*Virtual*
Oct 2020	**Python for Oceanographers**, Lecturer	*Virtual*
Fall 2015	**Course**, Teaching Assistant	
2019	**Principles of Physical Oceanography**, Teaching Assistant	*University of São Paulo, SP*
2019	**Coastal and Estuarine Physical Oceanography**, Teaching Assistant	*University of São Paulo, SP*

Outreach

Service and Outreach

2012-2013	**Event organization**, General Director	*Sã Paulo, SP*
2011	**Undergraduate Student Association**, Financial Director	
2009-2017	**Filantropic events**, Gathering donations for underprivileged communities and bone marrow donation campaigns	