

Renata Tatsch Eidt

Curriculum Vitae

Lecce, ITALY
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Centro Euro-Mediterraneo sui
Cambiamenti Climatici (CMCC)



Current position

Aug 2024 – Current **Centro Euro-Mediterraneo sui Cambiamenti Climatici - CMCC, ITALY**
Post Doc.
Division: GOCO (Global Coastal Ocean)
Ocean Modelling; Downscaling; Spectral Nudging; physical processes in the Adriatic Sea

Education History

- Nov 2020 – Jul 2024 **Alma Mater Studiorum - University of Bologna (UNIBO), ITALY**
PhD in Future Earth, Climate Change and Societal Challenges.
A downscaling exercise for the coastal ocean with the perfect model approach: a study for the Adriatic Sea
Supervisor: Dr. Giorgia Verri
- Aug 2023 – Nov 2023 **National Oceanography Centre (NOC), UK**
Exchange research period during PhD.
Spectral nudging application for coastal ocean modelling
Supervisor: Dr. Anna Katavouta
- Apr 2019 – Oct 2020 **Cruzeiro do Sul University, BRAZIL**
Distance Education in Agribusiness.
- Apr 2018 – Dec 2019 **State University of Rio Grande do Sul (UERGS), BRAZIL**
Postgraduation in Agroecology.
- Mar 2016 – Aug 2018 **National Institute for Space Research (INPE), BRAZIL**
Master's Degree in Meteorology.
Influence of extratropical SST anomalies in South Pacific and South Atlantic Oceans on precipitation over Southern and Central Brazil
Supervisor: Dr. Iracema F. A. Cavalcanti
- Jan 2013 – Jul 2014 **University of Queensland (UQ), AUSTRALIA**
Exchange Undergraduate Program.
- Jan 2010 – Jan 2016 **Federal University of Rio Grande (FURG), BRAZIL**
Bachelor's Degree in Oceanography.
CO₂ fluxes in the Gerlache Strait, Antarctica, during austral summer 2015
Supervisor: Dr. Rodrigo Kerr

Work/Academic Experience

- Nov 2020 – Jul 2024 **Centro Euro-Mediterraneo sui Cambiamenti Climatici - CMCC, ITALY**
PhD candidate.
Coastal Ocean Modelling; Downscaling; Spectral Nudging; Dense Water formation; Marine Heat Waves
- Apr 2018 – Oct 2020 **Agriculture, Rio Pardo, RS, BRAZIL**
Rice and soybean crop production.
Planning, administration, sustainability and access to technology and information in agriculture
- Mar 2016 – Apr 2018 **Center for Weather Forecasting and Climate Research - CPTEC, INPE, BRAZIL**
Master Project.
Air-sea interaction; teleconnections
- Oct 2014 – Dec 2015 **Laboratory of Oceans and Climate Studies - LEOC, FURG, BRAZIL**
Research Project.
Air-sea interaction; marine carbonate system; Antarctica
- Jan 2014 – Feb 2014 **Australian Institute of Marine Science - AIMS, AUSTRALIA**
Internship.
- Jul 2013 – Dec 2013 **School of Civil Engineering, University of Queensland, AUSTRALIA**
Research Project.
Turning buoyant plumes into tornadoes by artificial injection of angular momentum
Supervisor: Dr. Peter Nielsen
- Mar 2011 – Dec 2012 **Laboratory of Physical Oceanography, FURG, BRAZIL**
Research Project.
Numerical Modelling of oil dispersion in marine environments

Languages

Portuguese	Fluent (Native Language)	Italian	Fluent
English	Fluent	Spanish	Intermediate

Computer skills

Microsoft Office	Advanced	Windows OS	Advanced
MATLAB	Advanced	Mac OS	Advanced
GrADS	Intermediate	Linux OS	Intermediate
CDO/NCO	Intermediate	Python	Intermediate
UNIX shell	Intermediate	Fortran	Intermediate
Ocean Data View (ODV)	Basic		

Publications

Alves, L. M.; Eidt, R. T. Clima da Região Centro-Oeste. *Clima das Regiões Brasileiras e Variabilidade Climática*. 61-69, 2021.

Eidt, R. T.; Bernardo, J. T.; de Barros, J. N. G.; Aguilera, J. G.; Grohs, M.; da Costa, D. F. A. Avaliação do uso de Agrohombopatia e Trichoderma sp. na produtividade de arroz suscetível a brusone. *Research, Society and Development* 9(9), 2020.

Kerr, R.; Orselli, I. B.M.; Lencina-Avila, J. M.; Eidt, R. T.; Mendes, C. R. B.; Da Cunha, L. C.; Goyet, C.; Mata, M. M.; Tavano, V. M. Carbonate system properties in the Gerlache Strait, Northern Antarctic Peninsula (February 2015): I. Sea-Air CO₂ fluxes. *Deep-Sea Research Part II - Topical studies in Oceanography* 149:171-181, 2018.

Marques, W. C.; Stringari, C. E.; Eidt, R. T. The exchange processes of the patos lagoon estuary brazil: a typical el niño year versus a normal meteorological conditions year. *Advances in Water Resource and Protection*. 2:11–19, 2014.

Stringari, C. E.; Marques, W. C.; Mello, L. F.; Eidt, R. T. Application of Telemac - ECOS modelling system at the Southern Brazilian Shelf: Influence of Coastal Currents in Tramandai Oil Spill. *Marine Systems and Ocean Technology*. 9:105–112, 2014.

Stringari, C. E.; Marques, W. C.; Mello, L. F.; Eidt, R. T. Modeling the wind influence in an oil spill along the Southern Brazilian Shelf. *Engenharia Térmica*. 11:100–109, 2013.

Stringari, C. E.; Marques, W. C.; Eidt, R. T.; Mello, L. F. Modeling an Oil Spill along the Southern Brazilian Shelf: Forcing Characterization and Its Influence on the Oil Fate. *International Journal of Geosciences*. 04:397–407, 2013.

Mello, L. F.; Stringari, C. E.; Marques, W. C.; Eidt, R. T. Desenvolvimento de Modelo Lagrangiano de Transporte de Óleo: Estruturação e Acoplamento ao Modelo Hidrodinâmico TELEMAC3D. *Pesquisas Publicadas em Modelagem Matemática*. 1:1–21, 2012.

Abstracts published in conference proceedings

Eidt, R. T.; Verri, G., Costa, V. S., Gunduz, M., Katavouta, A., Navarra, A. Reproducibility of physical processes in coastal seas: a downscaling study for the Adriatic Sea *In: Ocean Sciences Meeting 2024, New Orleans*.

Eidt, R. T.; Verri, G., Costa, V. S., Gunduz, M., and Navarra, A. A downscaling exercise for the Adriatic Sea in a perfect model approach. *In: EGU General Assembly 2023, Vienna*.

Eidt, R. T., Grohs, M.; Nabuco, J.; Bernardo J. T. Avaliação da produtividade de cultivar de arroz suscetível a brusone tratada com agrohombopatia no Rio Grande do Sul *In: IV Jornada de Pós-Graduação UERGS, 2019, Porto Alegre*.

Eidt, R. T.; Cavalcanti, I. F. A. Rainfall variability over South America associated with SST anomalies in South Pacific and South Atlantic oceans. *In: AMOS-ICSHMO, 2018, Sydney*.

Barreto, N. J. C.; Eidt, R. T.; Cavalcanti, I. F. A. Intraseasonal variability over South America using the sub-seasonal to seasonal forecasting model NCEP-CFSV2. *In: AMOS-ICSHMO, 2018, Sydney.*

Eidt, R. T.; Cavalcanti, I. F. A. Influência do Oceano Pacífico Sul em eventos secos e chuvosos no sul do Brasil. *In: XVI EPGMET, 2017, Cachoeira Paulista.*

Eidt, R. T.; Kerr, R.; Orselli, I. B. M. Variação espacial dos fluxos de CO₂ durante o verão austral de 2015 no Estreito de Gerlache, Antártica. *In: XV Meeting of students from the Post-Graduation in Meteorology at INPE, 2016, Cachoeira Paulista.*

Eidt, R. T.; Orselli, I. B. M.; Kerr, R. Spatial variability of CO₂ fluxes in the Gerlache Strait, Antarctica, during austral summer 2015. *In: 4th International Symposium on the Ocean in a High-CO₂ World, 2016, Hobart.*

Kerr, R.; Eidt, R. T.; Orselli, I. B. M. CO₂ fluxes in the Gerlache Strait (Antarctica) during austral summer 2015. *In: XXXIV SCAR Open Science Conference, 2016, Kuala Lumpur.*

Eidt, R. T.; Kerr, R.; Orselli, I. B. M. Hydrography and CO₂ partial pressure in the Gerlache Strait, Antarctica, during austral summer 2015. *In: VIII Congreso Latinoamericano de Ciencia Antártica, 2015, Uruguay.*

Eidt, R. T.; Kerr, R.; Orselli, I. B. M. Variabilidade espacial da hidrografia e da pressão parcial de CO₂ nas águas do Estreito de Gerlache, Antártica. *In: XIV Academic Production Exhibition (MPU), Federal University of Rio Grande, 2015, Rio Grande.*

Eidt, R. T.; Stringari, C. E.; Mello, L. F.; Marques, W. C. Detecção de manchas de óleo em imagens de radar na plataforma continental do Sul do Brasil utilizando transformadas de ondaleta. *In: V Brazilian Conference on Oceanography - CBO, 2012, Rio de Janeiro*

Additional Information

Honorable mention: Eidt, R. T., Grohs, M.; Nabuco, J.; Bernardo J. T. Avaliação da produtividade de cultivar de arroz suscetível a brusone tratada com agrohombopatia no Rio Grande do Sul *In: IV Jornada da Pós-Graduação UERGS, 2019, Porto Alegre*

Best oral presentation: Eidt, R.T., Cavalcanti, I.F.A. Influência do Oceano Pacífico Sul em eventos secos e chuvosos no sul do Brasil. *In: XVI EPGMET, 2018, Cachoeira Paulista.*