

Curriculum Vitae

Education

- Ph.D. in Sedimentology and Marine Geology
University of Bologna, Italy (27 April 2011).
The stratigraphic record of the Quaternary sea level fluctuations and the impact of the post-glacial sea level rise (Termination I) in the Adriatic basin (Mediterranean Sea)
Advisor: Dr. Fabio Trincardi.
- M.Sc. in Geophysics
University of Trieste, Italy, 110/110 *cum Laude* (26 October 2007).
Determination of the structural parameter of sediments through inversion of seismic noise acquired with array technique and MASW
Advisors: Prof. Peter Suhadolc and Dr. Giovanni Costa.
- B.Sc. in Geology
University of Bologna, Italy, 110/110 (10 March 2005).
Geological map of transgressive deposits of the central Adriatic Sea and analysis of the seismic Facies
Advisors: Prof. Alessandro Amorosi and Dr. Fabio Trincardi.

Professional experiences

- Assistant Professor, Dalhousie University (January 2019 -).
- Lecturer, University of Aberdeen (May 2016 – November 2018).
- Research Scientist in Marine Geology at the Institute of Marine Sciences, ISMAR-CNR, Bologna, Italy (May 2014 - May 2016).
- Research fellow at the Institute of Marine Sciences, ISMAR-CNR, Bologna, Italy (May 2013 - May 2014).
- Post-doctoral fellow at the Institute of Marine Sciences, ISMAR-CNR, Bologna, Italy (May 2011 - May 2013).

Research projects

- The velocity structures of complex overburden on the NW shelf of Australia. Aberdeen-Curtin Alliance PhD Scholarship, £45,000. Principal Investigator: Prof Chris Elders, Personal Role: Co-Principal Investigator.
- Sediment dynamics and destabilization of continental margins: Predicting shelf and slope instability under a changing climate. Elphinstone PhD Scholarship, £5,400, Personal role: Principal Investigator (September 2017 - September 2020).
- WIMBI - Tsunami hazards along Tanzanian coastlines, funded by National Geographic Society (Grant Number: CP-R008-17), \$18,450, Personal role: Principal Investigator (May 2017 - June 2019).
- Gravitational tectonics and its control on channel evolution in the outer zone of the deep water Niger Delta, PhD Scholarship funded by TPDF - Petroleum Technology Development Fund, £81,600, Personal role: Principal Investigator (February 2017 - February 2020).
- Under the framework of the European Project Aid/135375/L/Act/Tz:

- 1- Spontaneous oil seepage as tool to assess the oil-generative potential of Tanzanian Coastal Sedimentary Basin, €15,110, Personal role: Co-Principal Investigator (2016 - 2018).
 - 2- Assessment of Mesozoic sandstone units as possible reservoirs in the Mandawa Basin, €15,470, Personal role: Co-Principal Investigator (2017 - 2018).
 - 3- An investigation of the Jurassic source rocks and their basement rocks for an assessment of a petroleum system in the south-western Tanzania, €15,000, Personal role: Co-Principal Investigator (2017 - 2018).
 - 4- Petrophysical and petrographic evaluation of the potential hydrocarbon reservoir rocks in the Rukwa Rift Basin, Southwestern Tanzania, €14,895, Personal role: Principal Investigator (2017 - 2018).
- Stratigraphic Paleobiology and Historical Ecology of Po Basin, funded by NSF (Award Number: 1559196), \$363,000, Principal Investigator: Dr. Michal Kowalewski (University of Florida), Personal role: Stratigrapher and Sedimentologist (2016).
 - I-PAD Project - The Italian Po Plain - North Adriatic Sea source-to-sink systems, funded by ExxonMobil, \$900,000, Principal Investigator: Dr. Fabio Trincardi (ISMAR-CNR), Personal role: Co-Principal Investigator (2013 - 2016).
 - SAPROPEL Project - "Diluted" shelf-slope sapropel beds, funded by Shell, \$240,000, Principal Investigator: Dr. Fabiano Gamberi (ISMAR-CNR), Personal role: Stratigrapher and Sedimentologist (2011 - 2013).

Scholarships, small grants and awards

- National Geographic Society - Elected Explorer of the National Geographic Society from the Committee for Research and Exploration, February 2017.
- SAGES - Scottish Alliance for Geoscience, Environment and Society. Small Grant Scheme, £750, Edinburgh (United Kingdom).
- 40th CIESM Congress Poster Award, 2nd Prize, Marseille (France).
- PAGES, Financial support for participation at the PAGES 4th Open Science Meeting (€1,500), Goa (India), 13 - 16 February 2013.
- 2010 Marco Polo Fellowships (€3,500, University of Bologna) for career development at the CSDMS, Community Surface Dynamics Modeling System, University of Colorado at Boulder (United States).

Invited speaker and organized conference sessions

- Fourth EAGE Eastern Africa Petroleum Geoscience Forum, Member of the technical committee. Nairobi, Kenya, 3 - 5 December 2018.
- **Maselli, V.**, Tewari, S., Mrutu, A., Mshiu, E., Kroon, D., Iacopini, D., Karega, A., de Haas, H., Francis, M., Milne, G., 2017. Tectono-stratigraphic evolution of the western Somali basin: Sediment dynamics, margin instability and the legacy of the East Africa Rift System. Third EAGE Eastern Africa Petroleum Geoscience Forum, Maputo (Mozambique), 7 - 9 November 2017.
- Regional hydrocarbon systems, Conveners: **Maselli, V.**, Rodriguez, K., Third EAGE Eastern Africa Petroleum Geoscience Forum, Maputo (Mozambique), 7 - 9 November 2017.

- East Africa Reservoir analogues, Conveners: Chocoroua, O., **Maselli, V.**, Third EAGE Eastern Africa Petroleum Geoscience Forum, Maputo (Mozambique), 7 - 9 November 2017.
- Onset of the East African Rift systems in the offshore Tanzania. TPDC, Tanzania Petroleum Development Corporation, Dar es Salaam (Tanzania), 9 May 2017.
- Glacial Vs Interglacial river delta formation: The role of natural processes and “modern” human impacts. Earth Science Research seminar, University of Aberdeen (United Kingdom), 13 April 2017.
- Causes and Consequences of Submarine Geohazards Offshore Southern Tanzania. TPDC, Tanzania Petroleum Development Corporation, Dar es Salaam (Tanzania), 13 December 2016.
- Future of the MSc in Petroleum Geosciences at the University of Dar es Salaam. Open Workshop with Government representatives and Industry sponsors, Dar es Salaam (Tanzania), 21 November 2016.
- Sustainable management of river deltas under pressure, Session GM6.6/ HS11.14/ NH1.11. Conveners: Stouthamer, E., Middelkoop, H. Co-Conveners: Ivan, O., Ibàñez, C., Maselli, V., EGU General Assembly 2016, Vienna (Austria), 17 - 22 April 2016.
- Preservation of allogenic and autogenic signals in a Late Quaternary incised valley system. XIX INQUA, Nagoya (Japan), 27 July - 2 August 2015.
- Invited speaker at the 20 year Anniversary of the Research Area of Bologna, within the celebration for the 90th Anniversary of the National Research Council (CNR). Bologna (Italy), 14 November 2013.

Publications

- Maselli, V.**, Kneller, B. 2018. Bottom currents, submarine mass failures and halokinesis at the toe of the Sigsbee Escarpment (Gulf of Mexico): contrasting regimes during lowstand and highstand conditions? *Marine Geology* 401, 36-65.
- Maselli, V.**, Pellegrini, C., Del Bianco, F., Mercorella, A., Crose L., Nittrouer, J. River morphodynamic evolution under dam-induced backwater: An example from the Po River (Italy). 2018. *Journal of Sedimentary Research* 88, 1190-1204.
- Pellegrini, C., Asioli, A., Bohacs, K., Drexler, T., Sweet, M., **Maselli, V.**, Rovere, M., Gamberi, G., Dalla Valle, G., Trincardi, G. 2018. The late Pleistocene Po river lowstand wedge in the Adriatic Sea: controls on architecture variability and sediment partitioning. *Marine and Petroleum Geology* 96, 16-50.
- Jalali, B., Sicre, M.A., Klein, V., Schmidt, S., **Maselli, V.**, Lirer, F., Bassetti, M.A., Toucanne, S., Jorry, S.J., Insinga, D., Petrosino, P., Châles, F. 2018. Deltaic and coastal sediments as recorders of Mediterranean regional climate and human impact over the past millennia. Accepted in press, *Paleoceanography and Paleoclimatology*.
- Madricardo, F., Fogliani, F., Kruss, A., Ferrarin, C., Pizzeghello, N., Murri, C., Rossi, M., Bajo, M., Bellafiore, D., Campiani, E., Fogarin, S., Grande, V., Janowski, L., Keppel, E., Leidi, E., Lorenzetti, G., Maicu, F., **Maselli, V.**, Mercorella, S., Montereale Gavazzi, G., Minuzzo, T., Pellegrini, C., Petrizzo, A., Prampolini, M., Remia, A., Rizzetto, F., Rovere, M., Sarretta, A., Sigovini, M., Sinapi, L., Umgiesser, G., Trincardi, F., 2017. *Nature Scientific Data* 4, 170121.
- Pellegrini, C., **Maselli, V.**, Gamberi, F., Asioli, A., Bohacs, K.M., Drexler, T.M., Trincardi, F., 2017. Large-scale stratal response to millennial- to centennial-scale oscillations in accommodation and sediment supply: the Po River Quaternary lowstand wedge. *Geology* 45, 327-330.
- Tesi, T., Asioli, A., Minisini, D., **Maselli, V.**, Dalla Valle, G., Gamberi, F., Langone, L., Cattaneo, A., Montagna, P., Trincardi, F., 2017. Large-scale response of the Eastern Mediterranean

- thermohaline circulation to African monsoon 1 intensification during sapropel S1 formation. Quaternary Science Reviews 159, 139-154.
- Marini, M., **Maselli, V.**, Campanelli, A., Fogliini, F., Grilli, F. The role of the Mid Adriatic Deep in the interception and modification of dense waters. Marine Geology 375, 5-14.
- Pellegrini, C., **Maselli, V.**, Trincardi, F., 2016. Pliocene-Quaternary contourite depositional system along the southern Adriatic margin: changes in sedimentary stacking pattern and associated bottom currents. Geo-Marine Letters 36, 67-79.
- Amorosi, A., **Maselli, V.**, Trincardi, F., 2016. Onshore to offshore anatomy of a Late Quaternary source-to-sink system (Po Plain - Adriatic Sea, Italy). Earth-Science Reviews 153, 212-237.
- Taviani, M., Franchi, F., Angeletti, L., Correggiari, A., Lopez Correa, M., **Maselli, V.**, Mazzoli, C., Peckmann, J., 2015. Biodetrital carbonates on the Adriatic continental shelf imprinted by oxidation of seeping hydrocarbons. Marine and Petroleum Geology 66, 511-531.
- Pellegrini, C., **Maselli, V.**, Cattaneo, A., Piva, A., Ceregato, A., Trincardi, F., 2015. Anatomy of a compound delta from the post-glacial transgressive record in the Adriatic Sea. Marine Geology 362, 43-59.
- Maselli, V.**, Trincardi, F., Asioli, A., Ceregato, A., Rizzetto, F., Taviani, M., 2014. Delta growth and river valleys: The influence of climate and sea level changes on the South Adriatic shelf (Mediterranean Sea). Quaternary Science Reviews 99, 146-163.
- Maselli, V.**, Trincardi, F., 2013. Man Made Deltas. Scientific Reports 3, doi:10.1038/srep01926.
- Trincardi, F., Campiani, E., Correggiari, A., Fogliini, F., **Maselli, V.**, Remia, A., 2013. The bathymetry of the Adriatic Sea: The legacy of the last eustatic cycle and the impact of modern sediment dispersal. Journal of Maps 10, doi: 10.1080/1744567.2013.864844.
- Micallef, A., Fogliini, F., Le Bas, T., Angeletti, L., **Maselli, V.**, Pasuto, A., Taviani, M., 2013. The submerged paleolandscape of the Maltese Island: Morphology, evolution and relation to Quaternary environmental change. Marine Geology 335, 129-147.
- Maselli, V.**, Trincardi, F., 2013. Large-scale single incised valley from a small catchment basin on the western Adriatic margin (central Mediterranean Sea). Global and Planetary Change 100, 245-262.
- Taviani, M., Angeletti, L., Campiani, E., Ceregato, A., Fogliini, F., **Maselli, V.**, Morsilli, M., Parise, M., Trincardi, F., 2012. Drowned karst landscape offshore the Apulian Margin (Southern Adriatic Sea, Italy). Journal of Cave and Karst Studies, doi: 10.4311/2011JCKS0204.
- Maselli, V.**, Hutton, E.W., Kettner, A.J., Syvitski, J.P.M., Trincardi, F., 2011. High-frequency sea level and sediment supply fluctuations during Termination I: An integrated sequence-stratigraphy and modeling approach from the Adriatic Sea (Central Mediterranean). Marine Geology 287, 54-70.
- Maselli, V.**, Trincardi, F., Cattaneo, A., Ridente, D., Asioli, A., 2010. Subsidence pattern in the central Adriatic and its influence on sediment architecture during the last 400 kyr. Journal of Geophysical Research 115, doi: 10.1029/2010JB007687.