

Curriculum Vitae

Personal information

Surname(s) / First name(s) **Caburlotto Andrea**
Address Istituto Nazionale di Oceanografia e di Geofisica Sperimentale – OGS
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Italy
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Nationality Italian
Date of birth 28/09/1971
Gender Male

Occupational field *Sedimentologist / Marine geophysicist*

Education and training

Dates January 2000 - December 2003
Title of qualification awarded PhD in Polar Sciences
Principal subjects Reconstruction of the Plio-Quaternary sediment processes of the Wilkes Land continental slope and rise (East Antarctica).
Scientific advisor: Angelo Camerlenghi (OGS).
Name and type of organisation providing education and training University of Siena / OGS

Dates February – August, 2002
Title of qualification awarded EU-Marie Curie Training Site
Principal subjects Seafloor and Subseafloor Acoustic Imaging
Name and type of organisation providing education and training Southampton Oceanography Centre – School of Ocean and Earth Science (UK)

Dates 2002
Title of qualification awarded Specialistic course
Principal subjects “Margins: source to sink sediment transport and stratigraphic modeling”
Course led by Prof. James P. M. Syvitski (Institute of Arctic and Alpine Research – INSTAAR, University of Colorado at Boulder, Boulder, Colorado, USA).
Name and type of organisation providing education and training University of Barcellona, Spain

Dates 1999
Title of qualification awarded MSc equivalent in Geology
Principal subjects Study of the influence of the bottom currents within the glacial-interglacial cyclic nature: sedimentological analysis of the core SED-15 (Antarctic Peninsula)
Name and type of organisation providing education and training Department of Geological, Environmental and Marine Sciences – University of Trieste (Italy)

Research Positions

Dates December 2012 → present
Occupation or position held Post-doc researcher position

<i>Name and address of employer</i>	OGS – Geophysics Section
<i>Type of business or sector</i>	Study of depositional processes and paleoceanography related to rapid holocenic climatic changes.
<i>Dates</i>	November 2007 → October 2012
<i>Occupation or position held</i>	Post-doc researcher position
<i>Name and address of employer</i>	OGS - Department for the Development of Marine Technology and Research
<i>Type of business or sector</i>	Study of deep-sea depositional processes on polar region related to climatic changes. Study of the climatic changes impact on the Northeastern Adriatic coastal area (Italy) relatively to sea level changes. Geo hazard analysis on the Ionian Sea (East Mediterranean).
<i>Dates</i>	November 2003 → November 2007
<i>Occupation or position held</i>	Post-doc fellowship
<i>Name and address of employer</i>	OGS - Department for the Development of Marine Technology and Research
<i>Type of business or sector</i>	Study of deep-sea depositional processes on polar region related to glacial dynamic and paleoclimatic changes.

Major expeditions

2012	Shipboard geophysicist during the MEL-CAM cruise (industrial cable positioning survey) onboard the OGS Explora in the Alboran Sea.
2011	Shipboard geophysicist during the BIOS cruise (industrial cable positioning survey) onboard the OGS Explora in the East Mediterranean Sea.
2010	Sub bottom data acquisition operator during the “Ionian Offshore” and “ISTEGE” cruises on board the R/V “OGS Explora in the Ionian and Thirrenian Seas
2009	Sub bottom data acquisition operator during the GLAMAR cruise on board the R/V “OGS Explora in the Celtic Sea
2009	Shipboard geologist during the GlaciBar cruise on board the R/V Jan Mayen in the Barent Sea
2009	Sub bottom data acquisition operator during the MAGIC cruise on board the R/V OGS Explora in the Ionian Sea
2008	Shipboard geologist during the EGLACOM cruise on board the R/V OGS Explora in the Barent Sea
2007	Shipboard geologist during the SVAIS cruise on board the R/V BIO Hesperides in the Barent Sea
2005-2007	Sub bottom data acquisition operator during the several cruise on board the R/V OGS Explora in the Ionian Sea
2003	Shipboard geologist during the IMAGES-CADO cruise on board the R/V Marion Dufrenoy II in the Southern Ocean (Antarctica)

Teaching experience

2010	Teaching graduate students about acquisition, processing and interpretation of sub bottom, multibeam and sedimentological data during the EUROFLEETS multidisciplinary Ship-based training course on board the R/V “Celtic Voyager” in the Celtic Sea (offshore Cork)
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Approved Research projects

2010	PNRA (Antarctic National Research Program): EDIPO (Eirik Drift PaleoOceanography investigations), P.I., 50,000 €.
2004	PNRA: QUASAR (QUATernary Sedimentary processes on the east Antarctic continental rise), P.I., 80,000 €

2000-2011

Collaboration in several international projects:

- ✓ EUROFLEETS - Towards an Alliance of European Research Fleets (EU, seventh framework programme). Activity: secretary of WP6 – Training and Education
- ✓ MAGIC – Marine Geohazards along the Italian Coasts (P.I.: R. Ramella, OGS)
- ✓ PNRA: EGLACOM – Evolution of a GLacial Arctic Continental Margin: the southern Svalbard ice stream-dominated sedimentary system (P.I.: M. Rebesco, OGS)
- ✓ SVAIS – The development of an Arctic ice stream-dominated sedimentary system: The southern Svalbard continental margin (P.I.: A. Camerlenghi, ICREA, c/o Universitat de Barcelona, Spain)
- ✓ VECTOR – Vulnerability of Italian coasts and marine ecosystem related to climate changes and their role on the Carbon cycle (P.I.: M. Busetti, OGS)
- ✓ PNRA: IGEOS – Geophysical integrated analysis of gas hydrate areas offshore Shetland Islands (P.I.: U. Tinivella, OGS)
- ✓ PNRA: BSR – Gas Hydrate and their impact on sub-antarctic areas climate and environment (P.I.: U. Tinivella, OGS)
- ✓ PNRA: MOGAM – MORphology and Geology of Antarctic Margins (Wilkes Land and Antarctic Peninsula) (P.I.: L. De Santis, OGS)
- ✓ PNRA: SEDANO – SEDiment Drifts of the Antarctic Offshore – a seismic reflection, sedimentological and deep sea current study of the glacial depositional system in which sediment drifts develop on the continental rise of the Pacific Margin of the Antarctic Peninsula (P.I. A. Camerlenghi and M. Rebesco, OGS)

Languages

Mother tongue(s)

Italian

Other language(s)

English

Self-assessment

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
good	fluent	good	fluent	fluent

Research Interest

Sedimentary records as indicators for environmental and climate changes
 Geohazards
 Physical and geotechnical sediment properties
 Sedimentary architecture of marine subsurface

Social skills and competences

Good communication and organizational skills; excellent interpersonal and teamwork skills.
 Ability to travel and work offshore for extended periods of time.

Technical and lab skills

- ✓ Geotek Multi Sensor Core Logger
- ✓ Sedigraph Micromeritics 5100 ET for grain size analysis
- ✓ Calcimeter Dietrich-Fruhling for determining the calcium carbonate content
- ✓ 2400 CHN Elemental Analyzer Elmer
- ✓ Frantz Isodynamic

Computer skills and competences

Operating systems
 Macintosh & Windows

Software
 MS Office
 Graphic_____Corel Draw, Adobe Illustrator, Freehand
 Mapping & Seismic Interpretation____Surfer, Geoframe, Petrosys, Kingdom Suite, Global Mapper
 Processing_____Promax 6.0, Vista, Seispro;

Licences & certificates

- ✓ European Driving Licence

- ✓ Underwater diving 3 stars CMAS certificate
- ✓ Certificate of proficiency in personal survival techniques on board ship (certificate No. PST 6335)

Date & Signature

28/12/2012

Andrea Caburlotto

List of publications

- Venuti, A., Florindo, F., **Caburlotto, A.**, Hounslow, M.W., Hillenbrand, C., Strada, E., Talarico, F.M. & Cavallo, A. 2011, "Late Quaternary sediments from deep-sea sediment drifts on the Antarctic Peninsula Pacific margin: Climatic control on provenance of minerals", *Journal of Geophysical Research B: Solid Earth*, vol. 116, no. 6.
- Rebesco M., Yanguang L., Camerlenghi A., Winsborrow M., Laberg J.S., **Caburlotto A.**, Diviacco P., Accettella D., Sauli C., Wardell N., Tomini I., 2011 – *Deglaciation of the western margin of the Barents Sea Ice Sheet – A swath bathymetric and sub-bottom seismic study from the Kveithola Trough*. *MARINE GEOLOGY*, 279, 141-147.
- Caburlotto A.**, Lucchi R.G., De Santis L., Macri P., Tolotti R., 2010 – *Sedimentary processes on the Wilkes Land continental rise reflect changes in glacial dynamic and bottom water flow*. *INTERNATIONAL JOURNAL OF EARTH SCIENCES*, 99 (4), 909-926, doi_10.1007/s00531-009-0422-8
- Macri P., Sagnotti L., Dinarès-Turell J., and **Caburlotto A.**, (2010). *Relative geomagnetic paleointensity of the Brunhes Chron and the Matuyama-Brunhes precursor as recorded in sediment core from Wilkes Land Basin (Antarctica)*. *PHYSICS OF THE EARTH AND PLANETARY INTERIORS* 179, 72-86.
- Rebesco, M., Neagu, R.C., Cuppari, A., Muto, F., Accettella, D., Dominici, R., Cova, A., Romano, C., **Caburlotto, A.**, 2009. Morphobathymetric analysis and evidence of submarine mass movements in the western Gulf of Taranto (Calabria margin, Ionian Sea). *INTERNATIONAL JOURNAL OF EARTH SCIENCES*, DOI 10.1007/s00531-009-0429-1.
- Hillenbrand C.-D., Moretona S.G., **Caburlotto A.**, Pudsey C.J., Lucchi R.G., Smellie J.L., Benetti S., Grobe H., Hunt J.B., Larter R.D., 2008 - *Volcanic time-markers for Marine Isotopic Stages 6 and 5 in Southern Ocean sediments and Antarctic ice cores: implications for tephra correlations between palaeoclimatic records*. *QUATERNARY SCIENCE REVIEWS*, 27, 518–540
- Caburlotto A.**, De Santis L., Zanolla C., Camerlenghi A., Dix J.K., 2006 – *New insights into Quaternary Glacial Dynamic Changes on the George V Land Continental Margin (East Antarctica)*. *QUATERNARY SCIENCE REVIEWS*, 25, 3029-3049.
- Macri P., Sagnotti L., Dinarès-Turrell J., **Caburlotto A.**, 2005 – *A composite record of late Pleistocene relative geomagnetic paleointensity from the Wilkes land basin (Antarctica)*. *PHYSICS OF THE EARTH AND PLANETARY INTERIORS*, 151, 223-242.
- Caburlotto A.**, Macri P., Damiani D., Giorgetti G., Busetti M., Villa G. & Lucchi R.G., 2003 - *Piston cores from the Wilkes Land Rise: data and considerations*. *TERRA ANTARCTICA REPORTS*, Vol 9, 63-68.
- Damiani D., **Caburlotto A.**, Giorgetti G., Memmi I., 2003 – *Mineralogical Study of Plio-Quaternary Marine sediments (Wilkes basin, East Antarctica) for Paleoclimatic and Paleoenvironmental reconstructions*. *TERRA ANTARCTICA REPORTS*, Vol. 8, 127-132.
- Donda F. e **Caburlotto A.**, 2003 – *MOGAM-MORphology and Geology of Antarctic Margins (Wilkes Land and Antarctic Peninsula) – RAPPORTO SULLA CAMPAGNA ANTARTICA ESTATE AUSTRALE 2002-2003, XVIII SPEDIZIONE, ENEA-PROGETTO ANTARTIDE*, 44-47.
- M. Busetti, **A. Caburlotto**, L. Armand, D. Damiani, G. Giorgetti, R.G. Lucchi, G. Villa, 2003 - *Plio-Quaternary sedimentation on the Wilkes Land continental rise. Preliminary results*. *DEEP-SEA RESEARCH SPECIAL VOLUME: "RECENT INVESTIGATIONS OF THE MERTZ POLYNIA AND GEORGE VTH LAND CONTINENTAL MARGIN, EAST ANTARCTICA"*; VOL. 50, Nos.8-9, 1529-1562.
- Di Vincenzo, G., **Caburlotto, A.**, and Camerlenghi, A., 2001. *40Ar-39Ar investigation of volcanic clasts in glaciogenic sediments at Sites 1097 and 1103 (ODP Leg 178, Antarctic Peninsula)*. In Barker, P.F., Camerlenghi, A., Acton,

G.D., and Ramsay, A.T.S. (Eds.), PROCEEDINGS OF THE OCEAN DRILLING PROGRAM, SCIENTIFIC RESULTS, 178 [ONLINE]. AVAILABLE FROM WORLD WIDE WEB: <[HTTP://WWW-ODP.TAMU.EDU/PUBLICATIONS/178_SR/CHAP_22/CHAP_22.HTM](http://www-odp.tamu.edu/publications/178_SR/CHAP_22/CHAP_22.HTM)>.

Lucchi R.G., Rebesco M., Busetti M., **Caburlotto A.**, Colizza E., Fontolan G., 2002 - Sedimentary processes and glacial cycles on the sediment drifts of the Antarctic Peninsula Pacific Margin: preliminary results of SEDANO II project. - In: Gamble J., Skinner D., Henrys S. (Eds), PROCEEDINGS VOLUME OF THE 8TH INTERNATIONAL SYMPOSIUM ON ANTARCTIC EARTH SCIENCES, 4-9 JULY, 1999, WELLINGTON, NEW ZEALAND. ANTARCTICA AT THE CLOSE OF A MILLENNIUM. THE ROYAL SOCIETY OF NEW ZEALAND BULLETIN 35, 275-280.

Workshops

- Lucchi R.G., Bàrcena M.A., **Caburlotto A.**, Camerlenghi A., Colmenero-Hidalgo E., Flores J.A., Giorgetti G., Macrì P., Melis R., Pedrosa M.T., Rebesco M., Sagnotti L., Sierro F., Urgeles R., Villa G., et al., (2011). Post LGM sedimentary processes and evolution of the Storfjorden trough-mouth fan (NW Barents Sea). Geoitalia, Torino 19-23 september; Abstract book, 79.
- Melis R., Bàrcena M.A., **Caburlotto A.**, Giorgetti G., Lucchi R.G., Macrì P., Morigi C., Persico D., Pugliese N., Rebesco M., Sagnotti L., Villa G., et al., (2011) The southern Svalbard margin sedimentary system: biostratigraphic and paleoceanographic observations from EGLACOM cruise 2008. Geoitalia, Torino 19-23 september; Abstract book, 79.
- Romeo R., Geletti R., **Caburlotto A.**, Zgur F., Codiglia R., Cova A., Facchin L., Ramella R., (2011). Deep-water coral communities in the Otranto Channel revealed by acoustic methods and gravity cores during a 2011 R/V OGS Explora survey – POSTER. Geoitalia, Torino 19-23 september; Abstract book, 257.
- Presti M., Loic B., **Caburlotto A.**, Crosta X., De Santis L., Kuhn G., Lucchi R.G., Macrì P., Schmidt S., Tolotti R., (2011). Factors controlling sediment delivery and composition on the rise and slope of the Wilkes Land margin (East Antarctica). 11th International Symposium on Antarctic Earth Sciences, Edinburgh 10-15 July 2011; Abstract book, 204.
- Colizza E., Bussi M., **Caburlotto A.**, Finocchiaro F., Landucci C., Langone L., Melis R., Mezgec K., Presti M., (2011). Very recent sedimentation in the northwestern Ross Sea coastal areas – POSTER. 11th International Symposium on Antarctic Earth Sciences, Edinburgh 10-15 July 2011; Abstract book, 352.
- Tolotti R., Bàrcena M.A., Macrì P., **Caburlotto A.**, De Santis L., (2011). Preliminary dataset on biogenic sedimentation in the Wilkes Land Margin (Eastern Antarctica). A siliceous microfossils approach compared with paleomagnetic and sedimentological results. – POSTER. 11th International Symposium on Antarctic Earth Sciences, Edinburgh 10-15 July 2011; Abstract book, 474.
- Busetti M., Baradello L., **Caburlotto A.**, Gordini E., Zanolla C., Accettella D., Antonioli F., Paganini P., (2010). Geophysical investigation of the Late Pleistocene and Holocene evolution of the Grado and Marano Lagoon (Northern Adriatic). VECTOR project, final workshop, Rome (Italy), October 18-19; abstract book, 15.
- Caburlotto A.**, Ceramicola S., Coste M., Cova A., Migeon S., Forlin E., Praeg D., Diviacco P., Cotterle D., Romeo R., Facchin L., Ramella R., Critelli S., and Chiocci F., (2010). Seabed features in relation to geohazards on the Ionian Calabrian margin: results from the MAGIC project. 39^o CIESM congress, Venice (Italy), 10-14 May 2010.
- Macrì P., Sagnotti L., Dinarès-Turell J., and **Caburlotto A.**, (2009). Relative geomagnetic paleointensity of the Brunhes Chron and the Matuyama-Brunhes precursor as recorded in sediment core from Wilkes Land Basin (Antarctica). Eos Trans. AGU, 90(52), Fall Meet. Suppl., Abstract GP11A-0733.
- Busetti M., Baradello L., **Caburlotto A.**, Gordini E., Nieto D., Zanolla C., Accaino F., Affatato A., Barbagallo A., Bratus A., Cappelli G., Cotterle D., Cova A., Del Negro E., Deponte M., Facchin L., Fanzutti F., Giustiniani M., Limonta S.,

- Paganini P., Sorgo D., Tomini I., Vellico A., Visnovich G. e Zgur F., 2009. Seismic stratigraphy and morphology of the Grado and Marano Lagoon (Northern Adriatic). VECTOR (Vulnerabilità delle Coste e degli ecosistemi marini italiani ai cambiamenti climatici e loro ruolo nei cicli del carbonio oceanico) project, second annual workshop, Roma, 25-26 february 2009, abstract book,16.
- Busetti M., Gordini E., Baradello L., Cova A., **Caburlotto A.**, DePonte M., Nieto D., Tomini I., 2007 – *The morphological and seismic stratigraphic characterization of the Grado and Marano lagoon (Northern Adriatic)*. Workshop W10: Vulnerabilità delle Coste e degli Ecosistemi Marini Italiani ai Cambiamenti Climatici e loro Ruolo nei cicli del carbonio mediterraneo (Progetto VECTOR) – POSTER. Rimini (Italy), 10-11 September 2007.
- DeSantis L., **Caburlotto A.**, Presti M., Accettella D., Cova A., 2007 – Submarine Geomorphology and bottom current signature on Antarctic sediment: examples from the George Vth continental shelf and slope (East Antarctica). XXIV IUGG, Perugia (Italy), 2-13 July 2007.
- Caburlotto A.**, DeSantis L., Giorgetti G., Macrì P., Tolotti R., Rebesco M., 2007 - *Glacial dynamic changes inferred from marine sediments on the Wilkes Land continental margin (East Antarctica)* – POSTER. EGU General Assembly, Vienna (Austria), 15-20 April 2007. Poster
- Caburlotto A.**, De Santis L., Camerlenghi A., Lucchi R.G., Macrì P., Tolotti R., , Giorgetti G., Damiano D. 2005 – *Sedimentary processes on the continental rise of the Wilkes Land Continental Margin (East Antarctica): a record of Quaternary Glacial Dynamic Changes*. East Antarctic Workshop, Spoleto (Italy), 18-20 September 2005
- Caburlotto A.**, De Santis L., Camerlenghi A., Lucchi R.G., Macrì P., Tolotti R., , Giorgetti G., Damiano D. 2005 – *Bottom Water Production and Quaternary Glacial Dynamic Changes recorded on the Wilkes Land Continental Margin (East Antarctica)*. Quinto Forum Italiano di Scienze della Terra, Spoleto (Italy), 21-23 September 2005
- Caburlotto A.**, DeSantis L., Camerlenghi A., Lucchi R.G., Macrì P., Tolotti R., Presti M., Giorgetti G., Damiani D., 2005 – *New insights into bottom water production and Quaternary glacial dynamic changes on The George Vth Land continental margin (East Antarctica)*. International Conference on “Glacial Sedimentary Processes and Products”, University of Wales, Aberystwyth, 22-27 August 2005.
- Caburlotto A.**, DeSantis L., Lucchi R.G., Giorgetti G., Damiani D., Macrì P., Tolotti R., Presti M., Armand L., Harris P., 2004 – *The George V Land Continental Margin (East Antarctica): new Insights Into Bottom Water Production and Quaternary Glacial Processes from the WEGA project*. AGU Fall Meeting, S. Francisco, California, 13-17 December 2004.
- Caburlotto A.**, Lucchi R.G., Giorgetti G., Damiani D., Macrì P., Busetti M., Armand L., Tolotti R., 2004 – *Quaternary Sedimentary processes on the Wilkes Land Continental Margin (East Antarctica)*. 32nd International Geological Congress, Firenze, 20 – 28 August 2004.
- Caburlotto A.**, DeSantis L., Camerlenghi A., Dix J.K., Zanolla C., 2004 – *Bathymetric and Seismic-Acoustic (3,5 kHz) evidences of Sedimentary Processes on the Wilkes Land Continental Margin (East Antarctica)*. – POSTER - 32nd International Geological Congress, Firenze, 20 – 28 August 2004.
- Caburlotto A.**, DeSantis L., Busetti M., Camerlenghi A., Dix J.K., 2003 - *Downslope processes and their relationship with bottom currents recorded by the sedimentary sequence on the Continental Rise of a glacial Margin (East Antarctica)*. – POSTER - Slope 2003, “Submarine slope systems: processes, products and prediction”, Liverpool (UK), April 28-29, 2003.
- Caburlotto A.**, DeSantis L., Lucchi R.G., Giorgetti G., Damiani D., Macrì P., 2004 – *Quaternary climatic changes recorded by sedimentary processes on the Wilkes Land Continental Margin*. Frontiers and opportunities in Antarctic Geosciences, Certosa di Pontignano (Siena), 28 – 31 August 2004.

- A. Caburlotto**, M. Busetti, R.G. Lucchi, P. Macrì, G. Giorgetti, D. Damiani, G. Villa, 2002 – *Quaternary environmental and palaeo-climate history in the continental slope and rise of Wilkes Land (East Antarctica)* – Workshop Scienze della Terra in Antartide, Certosa di Pontignano (SI), 30th September-2nd October 2002.
- M. Busetti, **A. Caburlotto**, D. Damiani, G. Giorgetti and R.G. Lucchi, 2001 – *Plio-Quaternary sedimentation on the Wilkes Land continental rise* – POSTER – International ANTOSTRAT Symposium, Erice, 8-14 September 2001.
- A. Caburlotto**, L. De Santis, C. Zanolla and C. De Cilla, 2001 – *Morphologic features of the present sea floor - Project WEGA-PNRA: Wilkes Basin Glacial History (East Antarctica)* – 2nd Workshop, Trieste, 27-31 August 2001.
- A. Caburlotto** and M. Busetti, 2001 – *Preliminary results from X-Rays, physical properties of the cores on the Wilkes Land continental rise - Project WEGA-PNRA: Wilkes Basin Glacial History (East Antarctica)* – 2nd Workshop, Trieste, 27-31 agosto 2001.
- Caburlotto A.**, Busetti M., 2001 – *Sediment cores collected on the Wilkes land (East Antarctica) continental rise: integrated study of X-ray images of lithological facies, magnetic susceptibility and physical properties.* – Project WEGA-PNRA: Wilkes Basin Glacial History (East Antarctica) – Italian workshop, Trieste, 28th June 2001.
- R.G. Lucchi, M. Rebesco, A. Camerlenghi, L. Sagnotti, P. Macrì, L. Tomadin, G. Giorgetti, **A. Caburlotto**, 2001 – *Glacimarine sedimentary processes on the Antarctic Peninsula Pacific Margin: geophysical and geological investigation of a high-latitude Neogene-Quaternary sediment drift* – A meeting of the Marine Studies Group of the Geological Society, Bristol, 29-30 March 2001.