

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Name **MANTOVANI CARLO**
Address
Telephone
Fax
E-mail

Nationality Italian
Date of birth

WORK EXPERIENCE

- Dates (from – to) April 2010 - present
- Name and address of employer Consiglio Nazionale delle Ricerche - Istituto di Scienze Marine (CNR-ISMAR) Sede Secondaria di Lerici - Forte S. Teresa 19032 Pozzuolo di Lerici (SP) – Italy.
Public research institute.
Research Technologist, member of the Physical Oceanography team in Lerici.
Management of High Frequency radar oceanographic observing platforms; real time provision of oceanographic data for maritime safety and environmental protection applications.
Member of EuroGOOS HF Radar Task Team.
Coordination roles in several tasks of national and European research projects.
Contribution to scientific and technical papers.
Educational and outreach activities for science dissemination.
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities
- Dates (from – to) August 2001 - March 2010
- Name and address of employer Istituto Nazionale per la Fisica della Materia (CNR-INFM), Corso Perrone 24, 16152 Genova, Italy
Public research institute
August 2001 - June 2006 as technician, July 2006 – March 2010 as Research Technologist, at the INForMando laboratory for science communication and education.
- Type of business or sector
- Occupation or position held

- Main activities and responsibilities
 - Coordination and technical support in science communication projects.
 - Multimedia software programming: analysis, design and development of educational web games and animations.
 - Development and management of the INForMando IT infrastructure.
 - Design and management of the video streaming service and digital video recording and editing within the CNR-INFM National Schools in PhD programme.
 - Design of original interactive exhibits, evaluation of multimedia equipment and drafting of teaching methods and strategies in science exhibitions and educational laboratories.

EDUCATION AND TRAINING

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| <ul style="list-style-type: none"> • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded | <p>March 2022 – June 2022</p> <p>Università degli Studi di Milano Bicocca, Piazza dell'Ateneo Nuovo, 1 - 20126, Milano</p> <p>Online training course on “JERICO-Joint European Research Infrastructure for Coastal Observatories Strategic Development Programme”.</p> <p>Certificate of attendance</p> |
| <ul style="list-style-type: none"> • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded | <p>March 2015</p> <p>Rockland Scientific International Inc., 520 Dupplin Road, Victoria, BC V8Z 1C1, Canada. Private company selling oceanographic instrumentation.</p> <p>Training course at CNR-ISMAR lab on the oceanographic instrument <i>MicroRider</i>, for ocean turbulence microstructure measurements and its integration with the <i>Slocum G2</i> autonomous underwater vehicle.</p> <p>Certificate of attendance</p> |
| <ul style="list-style-type: none"> • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded | <p>February 2015</p> <p>Teledyne Webb Research, North Falmouth, MA 02556 USA. Private company selling oceanographic instrumentation.</p> <p>Training course at CNR-ISMAR lab on the autonomous underwater vehicle <i>Slocum G2</i> management</p> <p>Certificate of attendance</p> |
| <ul style="list-style-type: none"> • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded | <p>May 2011</p> <p>Codar® Ocean Sensors, 1914 Plymouth Street, Mountain View, California 94043 USA. Private company selling oceanographic instrumentation.</p> <p>Training course on the SeaSonde® High Frequency Radar management for ocean currents and waves measurement</p> <p>Certificate of attendance</p> |
| <ul style="list-style-type: none"> • Dates (from – to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded | <p>June 2002</p> <p>Cineca, via Manganelli 6/3 – 40033 Casalecchio di Reno, Italy. Nonprofit Consortium, made up of 70 Italian Universities, 8 Italian Research Institutions and the Italian Ministry of Education</p> <p>Summer School on Scientific Visualization and 3D Interactive Graphics.</p> <p>Certificate of attendance</p> |

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
- Level in national classification (if appropriate)

September 1993 - July 2001
 Physics Department, University of Parma, Italy
 Mathematics, Physics, Information Technology, Electronics
 MSc in Physics
 Laurea Magistrale in Fisica

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded
- Level in national classification (if appropriate)

September 1988 – July 1993
 Liceo Classico G.Romani, via Trento 15, 26041 Casalmaggiore, Italy.
 Italian literature, classical Latin and Greek languages and literature, History, Philosophy
 Equivalent of Secondary School Diploma focused on Humanities
 Diploma di Maturità Classica

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

ITALIAN

Other language(s)
 Self-assessment European level (*)
English
French

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
B2	C1	B2	B2	B2
B1	B2	B1	B1	B1

(*) Common European Framework of Reference (CEF) level

SOCIAL SKILLS AND COMPETENCES

Attitude toward teamwork, experience on international cooperation within several European research and science dissemination projects.
 Participation to international conferences, workshops, meetings. Contribution to experimental activity.
 Outreach and educational activity with schools and generic audience, training of scientific tutors within science festivals and other events focused on science dissemination.
 Extensive experience in cooperation with private companies for evaluation and purchase of scientific instrumentation, technical equipment, computer hardware and services.

ORGANISATIONAL SKILLS AND COMPETENCES

Experience in complex projects drawing up and management, work and budget planning related to experimental activity and research infrastructure management.

TECHNICAL SKILLS AND COMPETENCES

Knowledge of HF radar operating principles. Experience on legal and technical requirements for design, implementation and operation of an HF radar network (system deployment, quality assessment, remote communication, data format and quality control, data transfer and archiving, near real time data dissemination).
 Understanding of instruments working principles, technologies and methodologies in the field of the physical oceanography.

Good knowledge and skill on Information Technology and computer hardware (operating systems, programming languages, components and peripherals). Good knowledge of Linux, Apple® Mac Os X and Microsoft® Windows operating systems.

Basic experience on computer and server administration (LAN setup, virtualization, implementation of strategies for data security and integrity).
 Good experience in design and development of animations, multimedia interactive software, web games and applications.
 Basic knowledge of HTML, JavaScript, PHP, MySQL.
 Good knowledge of digital audio and photo-video editing and processing software.
 Basic use of Matlab®

RESEARCH ACTIVITIES

Research sectors	Physical oceanography, remote sensing, data management, technological development
Ongoing projects and tasks	<p>Design and development of the European HF radar node's architecture for the real time application of standard format and quality control to ocean surface current data derived from HF radar systems.</p> <p>CMEMS2_Lot7_INS-TAC – Call for Tender COPERNICUS MARINE - PROVISION OF OCEAN OBSERVATION PRODUCTS: Coordinator for CNR activities (HF radar data)</p> <p>SINAPSI - assistenza in Sicurezza alla Navigazione per l'Accesso ai Porti in Sicurezza Interreg Italy-France Maritime 2014-2020: WP1 leader</p> <p>JERICO-S3 - Joint European Research Infrastructure of Coastal Observatories: science, service, sustainability EU H2020-INFRAIA-2018-2020 / H2020-INFRAIA-2019-1: Coordinator for CNR activities</p> <p>JERICO-DS - Joint European Research Infrastructure of Coastal Observatories - Design Study (H2020 Programme) participation to WP2 - Technical Design for an Operational JERICO-RI (physical part of the RI) and WP3 - JERICO e-Infrastructure technical design and data integration strategy</p> <p>SINDBAD and SINDBAD2.0 - Sicurezza della Navigazione da Diporto. POR-FESR Liguria 2014-2020: coordinator for CNR-ISMAR activities</p> <p>IMPACT - IMpatto Portuale su aree marine protette: Azioni Cooperative Transfrontaliere Interreg Italy-France Marittimo 2014-2020 European Programme: member of project's coordination team</p>
Recent publications	<p>Magaldi M. G., Barbieri L., Mantovani C., Baratti M., Bendoni M., Berta M., Berto D., Bigongiari N., Boccacci A., Bramanti L., Brandini C., Calace N., Caliani I., Cannicci S., Casini S., Connès C., Corgnati L. P., Costanza L., Coudray S., Cristofori S., Di Mento R., Doronzo B., Dumas D., Fattorini M., Femiano R., Fratini S., Galgani F., Galli T., Gozzini B., Gramoullé A., Grassini I., Griffa A., Guizien K., Guérin C.-A., Iozzelli M., Lapucci C., Lenoble V., Maltese S., Mario S., Mazoyer C., Mengoni A., Menonna V., Molcard A., Oliva M., Ortolani A., Ourmières Y., Padrón M., Piermarini R., Pretti C., Romanelli G., Ruberti G., Scarpato A., Sciascia R., Silvestri C., Taddei S., Ugolini A., Vanneste H., Vannucchi V., Xu D. (2021). Strumenti e indicazioni di governance transfrontaliera. Piano d'azione e linee guida del progetto IMPACT. Instruments et indications pour la gouvernance transfrontalière. Plan d'action et lignes directrices du projet IMPACT, Lerici (SP), Italy, CNR Edizioni, 40p., doi: 10.26383/CNR-ISMAR.2021.3</p> <p>Mantovani C, Corgnati L, Horstmann J, Rubio A, Reyes E, Quentin C, Cosoli S, Asensio JL, Mader J and Griffa A (2020) Best Practices on High Frequency Radar Deployment and Operation for Ocean Current Measurement. Front. Mar. Sci. 7:210. doi: 10.3389/fmars.2020.00210</p> <p>Ottaviani E., Gjeci N., Novellino A., D'Angelo P., Alba M., Brotto P., De Leo F., Ferrari F., Besio G., Mazzino A., Figari M., Zacccone R., Corgnati L., Mantovani C., Berta M., Magaldi M. G. (2019). "SINDBAD: a new operational service for a safer leisure and boating navigation". Atti</p>

Roarty H, Cook T, Hazard L, George D, Harlan J, Cosoli S, Wyatt L, Alvarez Fanjul E, Terrill E, Otero M, Largier J, Glenn S, Ebuchi N, Whitehouse B, Bartlett K, Mader J, Rubio A, Corgnati L, Mantovani C, Griffa A, Reyes E, Lorente P, Flores-Vidal X, Saavedra-Matta KJ, Rogowski P, Prukpitikul S, Lee S-H, Lai J-W, Guerin C-A, Sanchez J, Hansen B and Grilli S (2019) The Global High Frequency Radar Network. *Front. Mar. Sci.* 6:164. doi: 10.3389/fmars.2019.00164

Corgnati L., Mantovani C., Griffa A., Berta M., Penna P., Celentano P., Bellomo L., Carlson DF., D'Adamo R., 2019. Implementation and Validation of the ISMAR High-Frequency Coastal Radar Network in the Gulf of Manfredonia (Mediterranean Sea). *IEEE Journal of Oceanic Engineering*, vol. 44, no. 2, pp. 424-445, doi: 10.1109/JOE.2018.2822518. WOS:000464929900013

Corgnati L., Mantovani C., Novellino A., Rubio A. and Mader, J., 2018. Recommendation Report 2 on improved common procedures for HFR QC analysis. JERICO-NEXT WP5-Deliverable 5.14, Version 1.0. Brest, France, IFREMER, 82pp. DOI: <http://dx.doi.org/10.25607/OBP-944>

Sciascia R., Berta M., Carlson DF., Griffa A., Panfili M., La Mesa M., Corgnati L., Mantovani C., Domenella E., Fredj E., Magaldi MG., D'Adamo R., Pazienza G., Zambianchi E., Poulain PM. (2018) Linking sardine recruitment in coastal areas to ocean currents using surface drifters and HF radar. A case study in the Gulf of Manfredonia, Adriatic Sea, *Ocean Sci.*, 14, 1461-1482, 2018, <https://doi.org/10.5194/os-14-1461-2018>

Berta M., Bellomo L., Griffa A., Magaldi M. G., Molcard A., Mantovani C., Gasparini G. P., Marmain J., Vetrano A., Béguery L., Borghini M., Barbain Y., Gaggelli J., Quentin C. (2018) Wind induced variability in the Northern Current (North-Western Mediterranean Sea) as depicted by a multi-platform observing system. *Ocean Sci.*, 14, 689-710, 2018 <https://doi.org/10.5194/os-2018-20>

Marini S., Corgnati L., Mantovani C., Bastianini M., Ottaviani E., Fanelli E., (2018) Automated estimate of fish abundance through the autonomous imaging device GUARD1, *Measurement* Volume 126, October 2018, Pages 72-75, DOI: 10.1016/j.measurement.2018.05.035.

Enrile F., Besio G., Stocchino A., Magaldi M.G., Mantovani C., Cosoli S., Gerin R., Poulain P.M., (2018) Evaluation of surface Lagrangian transport barriers in the Gulf of Trieste. *Continental Shelf Research*, Volume 167, 1 September 2018, Pages 125-138 <https://doi.org/10.1016/j.csr.2018.04.016>.