



Giovanna Vittori

Full professor

✉ vittori@dicca.unige.it

☎ +39 010 3532473

Education and training

1986

Laurea

University of Genova - Genoa - IT

1992

PhD in Hydrodynamics

Network of Universities (University of Padua Genoa Florence an - Padua - IT

Academic experience

2000 - ONGOING

Professore ordinario

università di Genova - Genova - IT

1993 - 2000

Ricercatore universitario

Università di Genova - Genova - IT

1990 - 1993

Borsista

Consiglio Nazionale delle Ricerche - Genova - IT

Work experience

1986 - 1987

Programmatore

Marconi Italiana - Genova - IT

Language skills

Italian

Mother tongue

English

Proficient

Postgraduate research and teaching activity

Supervision of PhD students, residents and post-doctoral

fellows

PHD STUDENTS:

1998-2001 Veronica Galletta

2004-2008: Francesco Fornarelli

2010-2013: Marco Mazzuoli

FOREIGN STUDENTS:

2006: Momade Chale Ibraimo (Mozambico)

PhD committees membership

2002-2004 Coordinator PhD Course on Fluid Dynamics and Processes of Environmental Engineering

2008- 2012 Coordinator of the PhD program in Fluid Dynamics and Processes of Environmental Engineering

2013- 2017 Coordinator of the PhD program in Civil, Chemical and Environmental Engineering

Postgraduate (PhD) teaching activity

2015-2016-2017-2018: Corso di 'Metodi Perturbativi', Dottorato in 'Ingegneria Civile, chimica e Ambientale'

2006 e 2011 Lezioni corso di 'Turbolenza', Dottorato in 'Fluidodinamica e Processi per l'Ingegneria Ambientale'

2009 Lezioni corso di 'Meccanica dei Fluidi', Dottorato in 'Fluidodinamica e Processi per l'Ingegneria Ambientale'

Research interests

Fluid dynamics, turbulence, coastal hydrodynamics, sediment transport, coastal morphodynamics

Grants

1992 - 1995

G8 Coastal morphodynamics

EU

Participant

1996 - 1999

Prediction of aggregated scale coastal evolution (PACE))

EU

Participant

1997 - 1999

Small-scale morphology and boundary layer processes measurements and modeling

Office of Naval Research - US

Principal investigator

1998 - 2001

Sediment Transport Modelling in Marine Coastal Environments (SEDMOC).

UE
Participant

2001 - 2004

Human interaction with large scale coastal morphological evolution (HUMOR).

UE
Participant

2002 - 2005

Sand transport and morphology of offshore sand mining pits (SANDPIT)

EU
Participant

2003 - 2005

Numerical modelling of oscillating foils for underwater propulsion

Office of Naval Research - US
Participant

2013 - 2014

TEST SEA - Turbulence Events and Sediment Transport at SEAbed

PRACE
Participant

2014 - 2015

Best Practices for the Physical Process and Impact Assessment in Support of Dredging Operations on the US Outer Continental Shelf

Bureau of Ocean Energy Management Regulation and Enforcement (BOEMRE) - US
Participant

2017 - ONGOING

Developing a Probabilistic Model for Sediment Transport in Oscillatory Flow Using Direct Numerical Simulations

ONR cooperation with NRL
Principal investigator

2018 - ONGOING

MOST-SEA The mechanics of sediment transport under sea

waves

PRACE

Participant

1996 - 1997

Processi vorticosi turbolenti caotici-applicazioni impiantistiche e ambientali

MIUR - IT

Participant

1998 - 2000

Modellazione di processi vorticosi turbolenti e caotici che si realizzano nella regione costiera

MIUR - IT

Participant

2002 - 2004

Interazioni morfodinamiche fra le componenti di un sistema lagunare.

MIUR - IT

Participant

2005 - 2007

Cave sottomarine e ripascimenti modellazione morfologica e applicazioni

MIUR - IT

Participant

2008 - 2009

Sviluppo di metodologie teorico-numeriche finalizzate allo studio dell'evoluzione delle coste basse

ISPRA - IT

Participant

2010 - 2012

Idrodinamica e morfodinamica nella regione dei frangenti

MIUR - IT

Participant

2012 - 2015

Modellazione di processi idromorfodinamici costieri per applicazioni ingegneristiche.

MIUR - IT

Participant

Editorial activity

member of the editorial Committee of the series "Morphodynamics of

Sedimentary Patterns” (Genoa University Press)