

Curriculum Vitae

PERSONAL INFORMATION

Maria Di Vincenzo



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Sex Female | Date of Birth 18/04/1987 | Nationality Italian

09/2017–09/2020 **PhD fellow – Institut Européen des Membranes, CNRS, Montpellier (France)**

Field: Material Science

Thesis: “Development of reverse osmosis membranes incorporating artificial water channel systems”

WORK EXPERIENCE

02/2016–07/2016 **CNRS Research Internship, Institut Européen des Membranes, Montpellier (France)**

Fabricated thin-film composite membranes by means of interfacial polymerization tested under low pressure reverse osmosis and nanofiltration conditions

Characterization of membranes by IR spectroscopy, scanning electron microscopy (SEM), contact angles measurements, Energy-dispersive X-Ray (EDX) spectroscopy

Membrane testing for the determination of its transport and selectivity performance in LPRO

Publication: “Polyol-functionalized Thin-Film Composite Membranes with Improved Transport Properties and Boron Removal in Reverse Osmosis” – *Journal of Membrane Science*, June 2017

<https://doi.org/10.1016/j.memsci.2017.06.034>

07/2015–10/2015 **Trainee, Studio di Ingegneria e Consulenza, Milan (Italy)**

Acquired experience in sanitary engineering: designing wastewater treatment plant

Sedimentation and filtration processes, biochemical oxidation, denitrification, ozone treatment, implementation of membrane separation processes

12/2012–05/2013 **Trainee, Industrial Design & Architect, Caltanissetta (Italy)**

Acquired knowledge in designing biomass plant: upgrading and optimization of a biomass plant in Veneto (Italy)

Biomass storage and pre-treatment, anaerobic treatment of agricultural wastes, post-treatments and sustainable usages, evaluation of environmental impact, business plan

09/2012–11/2012 **Trainee, University of Palermo, (Italy)**

Technical experience in the field of topography acquired during terrestrial, coastal and bathymetric surveys in the Aeolian Islands of Lipari and Vulcano (Sicily)

EDUCATION AND TRAINING

09/2013–10/2016 **Master of Science in Environmental Engineering – Department of Environment, Land and Infrastructure Engineering, Politecnico di Torino, (Italy)**

Field: Environment and Land Engineering

Thesis: “Fabrication and characterization of functionalized thin-film composite membranes for desalination and boron rejection”

Grade: 101 (out of 110)

- 10/2005–07/2013 **Bachelor Degree in Environmental Engineering – Faculty of Engineering, University of Palermo, (Italy)**
 Field: Environment and Land Engineering
 Thesis: “Functional optimization of management facilities for the anaerobic treatment of organic waste from agriculture and animal husbandry”
 Grade: 102 (out of 110)
- 09/2004–06/2008 **Baccalaureate Degree – State High School „R. Settimo” of Caltanissetta (Italy)**

PERSONAL SKILLS

Native language Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English – IELTS	B2*	B2*	B2*	B2*	B2*
Français	B2*	B2*	A2*	A2*	A2*

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 * [Common European Framework of Reference for Languages](#)

Communication skills Good communication skills, gained by interacting with co-workers

Job-related skills A good knowledge of membrane fabrication: interfacial polymerization technique, characterization, reverse osmosis, IR spectroscopy, data processing

Digital competences Very good command of Microsoft Office™ Tools
 Basic command of MathLAB, Origin, Envi, Gis, Surfer and Aqtesolv

ADDITIONAL INFORMATION

Awards **1. CNRS research grant**, during the 2nd year of the master studies, awarded by **le Centre National de la Reserche Scientifique (CNRS)**. The research was developed under the guidance of Dr. Yves-Marie Legrand at the European Institute of Membranes and Prof. Alberto Tiraferri from Politecnico di Torino, in the group of Dr. Mihail Bărboiu, and it was focused on the fabrication of functionalized thin-film composite membranes for water desalination and boron removal. Montpellier, France, February 2016 – July 2016