Riccardo Moscatelli



PRESENT OCCUPATION

Ph.D. Student - Mechanical Engineer - Researcher

PROFESSIONAL EXPERIENCE

01/01/2014 - Today

Ph.D. Student - Researcher

Università degli Studi "Roma Tre", Dipartimento di Ingegneria D.I.

Via della Vasca Navale 81, 00100 Roma (Italia)

Ph.D. student in Mechanical Engineering, major in Materials.

Research themes: characterization and functionalization of materials using innovative measurement tecniques (Nanoindentation with not conventional methods).

Free Surface Energy and materials adhesion study.

Nanoindentation for mechanical engineering and biomedical applications.

Collaboration with Nanomechanics Inc. (Oak Ridge, TN, USA) from June to July 2014

Collaboration with the Beijing University of Technology (Beijing, China) from September 2014 until July 2015

Teaching:

Invited speaker for two seminars at University of Rome "Roma Tre": Introduction to Material Science and Technology (2016 – Arcadia University)

Publications:

"High-resolution high-speed nanoindentation mapping of cement pastes: Unravelling the effect of microstructure on the mechanical properties of hydrated phases", M. Sebastiani · R. Moscatelli · F. Ridi · P. Baglioni · F. Carassiti, 2016, Journal of Materials and Design

"Load Displacement and high speed nanoindentation data set at different state of charge (SoC) for spinel LixMn2O4 cathodes", Muhammad Zeeshan Mughal · Riccardo Moscatelli · Marco Sebastiani, 2016, Data in Brief

"Effect of lithiation on micro-scale fracture toughness of LixMn2O4 cathode", Muhammad Zeeshan Mughal · Riccardo Moscatelli · Hugues-Yanis Amanieu · Marco Sebastiani, 2016, Scripta Materialia

"Cemented carbides with highly oriented WC grains and formation mechanisms", Xilong Wang · Haibin Wang · Riccardo Moscatelli · Xuemei Liu · Xiaoyan Song, 2016, Material Science and Engineering A

01/06/2012 - 31/12/2013

Post Doctoral Grant

Università degli Studi "Roma Tre", Dipartimento di Ingegneria D.I.

Via della Vasca Navale 81, 00100 Roma (Italia)

Design and characterization of an icephobic coating for aeronautical applications. Contact angle measurements, profilometer studies, Scratch Tests, Micro and Nano Indentation Tests.

Publications:

"CSM and DCM-Express Nanoindentation Mapping on Lithium/Polymer Battery Composites" M. Sebastiani, F. Massimi, R. Moscatelli, Edoardo Bemporad, D. Rosato, H.-Y. Amanieu (2013)

01/01/2011 - 31/05/2012

Expert consultant for Fluid dynamics

Università degli Studi "Roma Tre", Dipartimento di Ingegneria D.I.

Via della Vasca Navale 81, 00100 Roma (Italia)

Expert consultant for numerical simulations (C.F.D.) with Fluient code for:

- Wing section study for vertical axis wind turbine (Savonius)
- Heat exchangers with porous medium study for optical applications
- Fire security
- Experimental measurements
- Assistant supervisor for master degree students

ISTRUCTION AND FORMATION

26/09/2011

Admission at the Engineer Register of Rome N. 33635 Sect. A

Ordine degli Ingegneri della Provincia di Roma – Civil, Informatic and Industrial Areas.

01/10/1998 - 21/12/2010

Master Degree in Mechanical Engineering, major in Materials (vote: 105/110)

Università degli Studi "Roma Tre", Facoltà di Ingegneria Meccanica

Via della Vasca Navale 81, 00100 Roma (Italia)

01/10/1993 - 15/06/1998

Secondary Scientific School diploma with 60/60

Liceo Scientifico Malpighi, Roma (Liceo) Via del Forte Braschi, 00100 Roma (Italia)

PERSONAL COMPETENCES

Mother Language

Italian

Other Languages

COMPREHENSION		CONVERSATION		WRITING
Listening	Reading	Interaction	Oral Production	
B2	B2	B2	B2	B2

Inglese

Livelli: A1/2 Base Level - B1/2 Medium Level - C1/2 Advanced Level Quadro Comune Europeo di Riferimento delle Lingue

Communication Competences

Very good communication competences matured during private teaching activities to singles and groups and during past professional experiences (Presentation of technical-scientific reports and projects)

Organization and management Competences

Very good work organization and management competences, both individual or in team. Timeliness and precision during the development of a project.

Propensity to both individual or team work

Willing for work in foreign countries (in particular: China)

Informatic Competences Very good hardware and software competence, matured during past private work as LAN.

Competences in the most important photo and video editor.

Very good Knowledge of CFD code FLUENT and mesh softwares (Tecplot and Gambit)

Very good competence with all the Office and Adobe Suite.

Other Competencs Good competence in photography.

Buone attitudini alla scriuttura ed alto interesse alle arti.

Driving Licenses European A (all) and B

OTHER INFORMATIONS