europass Curriculum vitae

PERSONAL INFORMATION

Marco Puccini

+039 333 5201492

marco.puccini@enea.it puccini.marco@gmail.com

www.afs.enea.it/puccini kvarken.it

github.com/mpuccini

gitlab.com/mpuccini

ORCID 0000-0003-1769-1592

Skype marco.puccini79

Gender Male | Date of birth 12 July 1979 | Nationality Italian

WORK EXPERIENCE

Sep 2020 – Present — Research Fellow

ENEA TERIN-ICT, Rome, Italy

Data Intensive architectures. ICT for Heritage Science.

Nov 2019 – Jun 2020 — ICT consultant

Sys-Man S.r.l. for ENEA DTE-ICT, Rome, Italy

ECODIGIT project: Proof of concept of middleware component for a digital ecosystem for cultural heritage. Containerized PoC development

Jan 2019 – Oct 2019 — ICT consultant

Evodevo S.r.l. for ENEA DTE-ICT, Rome, Italy

ECODIGIT project: Proof of concept of middleware component for a digital ecosystem for cultural heritage. MongoDB sharded cluster design and deployment

Sep 2016 – Jan 2017 — Independent contractor

University of Rome “La Sapienza”, Department of Mechanical and Aerospace Engineering, Rome, Italy

Particle Image Velocimetry (PIV) data analysis for the dynamic of cavitation bubbles

Jan 2013 – Dec 2015 — Fellowship

CNR-INM Institute of Marine Engineering (ex CNR-INSEAN), Rome, Italy

RITMARE project: Evaluation and definition of EEDI (Energy Efficiency Design Index) for Ro-Ro cargo ships: form factor, scale effect, correlation between towing tank tests on scaled models with real ships, uncertainty analysis

Oct 2015 – Present — Researcher / Independent Consultant

University of Rome “La Sapienza”, Departments of Sciences and Medical and Surgical Biotechnologies and Department of Molecular Medicine

Data processing and analisys of recorded radio-isotopic irradiation on a LuYAP:Ce array of crystal pixels

Oct 2009 – Jul 2011 — Internship

TakeAir S.r.l., Viale delle Milizie 114 00192 Rome, Italy

- Air quality forecasting system, build-up of the geo-referenced emissions database
- Linux sysadmin assistant

EDUCATION AND TRAINING

2012

Master degree in Physics

University of Rome “La Sapienza”, Italy

Supervisors: Prof. Franco Meddi and Eng. Marialuisa Mongelli

Title: *Validation of numerical models using seismic monitoring remotely of structural elements for conservation of cultural heritage.*

Description: This work aims to build up a survey methodology that integrates a fem model (finite element method) with seismic tests on shake table. The methodology employs measures of displacements of a scaled structure to improve the related fem model over a HPC infrastructure that allows to make remote the entire process

PERSONAL SKILLS

Mother tongue: Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C2	B2	B2	C1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
Common European Framework of Reference for Languages

Digital competences

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

Computer skills

- OS: GNU/Linux, OSX, Microsoft Windows
- Web Dev: HTML, CSS, PHP, Apache HTTP, Nginx
- Microservices: Docker, Docker-compose, Kubernetes
- DB: mongoDB, sqlite, influxDB, Virtuoso
- Sys Admin: SSH, bash scripting
- Dev Ops: Git and Git platforms
- Data science: Python (Numpy, Pandas, Matplotlib, Seaborn, Jupyter notebook), Matlab/Octave
- other: LaTeX, Suite Office

Driving licence: B

PUBLICATIONS

[1] Marialuisa Mongelli, Giulia Chellini, Silvio Migliori, Antonio Perozziello, Samuele Pierattini, Marco Puccini, and Alessandro Cosma. “Photogrammetry and structured light: comparison and integration of techniques in survey of the Corsini Throne at Corsini Gallery in Rome”. In: *Proc. 2019 IMEKO TC-4 International Conference on Metrology for Archaeology and Cultural Heritage (Florence, Italy, December 4-6, 2019)*. IMEKO, 2019.

[2] Raffaele Scafé, Rosanna Pellegrini, Marco Puccini, Maria N. Cinti, and Roberto Pani. “Rejection of events undergoing multiple interactions within a scintillation crystal array based on spatial charge spread discrimination for gamma-ray imaging”. In: *Nuclear Inst. and Methods in Physics Research, A* 870 (Oct. 2017), pp. 97–102.

[3] Raffaele Scafé, Rosanna Pellegrini, Maria N. Cinti, Marco Puccini, and Roberto Pani. “A Novel Scintillation Imager with Charge-spread Discrimination. Analytical Models Suitable for Crystal Arrays”. In: *Nuclear Inst. and Methods in Physics Research, A* 833 (Oct. 2016), pp. 110–121.

[4] F. Iannone M.Puccini M.Mongelli and S. Migliori. *Ecodigit: goals and activities report*. Tech. rep. ENEA, 2020.

[5] S. Migliori M.Puccini F. Iannone and M. Mongelli. *Survey of the modern database technologies.* Tech. rep. ENEA, 2019.

[6] A.Olivieri M.Puccini. *Measurement methodology of submersions with the new system pantographs*. Tech. rep. CNR-INSEAN, 2016.

[7] A.Olivieri M.Puccini. *Indirect measurement of the deformation of the rails 1 INSEAN basin: real-time correction of the measurement of the dives for testing in free submersion conditions*. Tech. rep. CNR-INSEAN, 2016.