

Curriculum Vitæ

Personal information

Name surname
Address
Telephone
Email/website
Born

Giovanni Marelli

Via Renzano 36, 25087, Salò, Italy
+39 329 5458108
marelli@inventati.org, www.inventati.org/kotoba
Desenzano del Garda, the 14th/08/1983, Italian, male



Short description

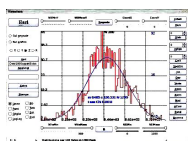
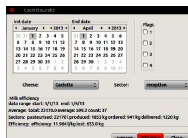
Skills
Interests
Field of study
Programing
Personal

Data analysis/mining, algorithm development, Monte Carlo, and modeling.
Data science, quantitative analysis, optimization, and programming/computing.
Statistical mechanics, computational biophysics, and signal/information theory.
Database, visualization, image processing, geometrical transformation, and grid/cloud computing.
Fast learner, independent, creative, flexibility, good knowledge of international languages and long coaching experience.

Work experience



Internships



Data consultant for ERP/CRM and GIS systems (10/2013-present)

Advising entrepreneurs to organize and collect data in their companies, installing cloud based ERP/CRM systems [openERP] (Brescia, Milano). Setting a geo based rural portal to connect professionals [openLayers, ajax] (Garda).

Research assistant (06/2009-01/2013)

Tutoring, consulting on simulation methods, and theses supervision (Georg August Universität Göttingen, Germany).

Data analyst (02-05/2013).

Control on production flow in a milk factory [python, MySQL], livelihoods of a rural population pre-electrification [R, SPSS, qgis], database for patient data handling [php, MySQL] (Njombe, Tanzania).

Programmer (04-07/2007).

Tool for analyzing and visualizing statistical properties of random telegraph signals (Università degli studi di Padova) [c++, Qt3].

Teaching experience

10/2009-03/2011
2008
2003-2008

Teaching assistant

Mathematical methods, biophysics, and statistical mechanics (uni-Göttingen).

Guide

Museum of history of physics and science exhibition (Sperimentando Padova).

Teacher

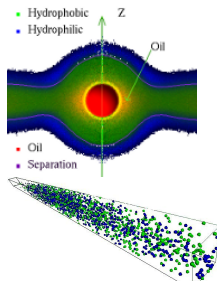
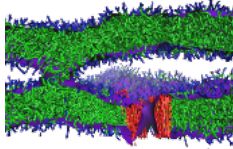
Italian classes for foreigners (Razzismo stop Padova).

Research experience

09/2012
2010-2012
08/2010

Biomembrane days (W. Helfrich 80th birthday) (Postdam, Germany).
Deutsche Physicalische Gesellschaft (Regensburg, Berlin, Dresden).
Guest at the institute of theoretical physics (Katholieke Universiteit, Leuven, Belgium).

Education



Soft skills

Workshop

Professional skills

Native
Fluent
Intermediate
Beginner

Languages
Development

Computing
Web
Databases
Libraries/API

Softwares

Further information

2011-2012

10/2004



Attachments

Die Georg-August-Universität Göttingen
unter der Präsidentschaft
Professoren Dr. rer. physik. Dr. h. c. Ulrike Beisiegel
verleiht
durch die Mathematisch-Naturwissenschaftliche Promotionskommission
Georg-August-Universität School of Science (GAUSS)

PhD in physics at the *computational soft-matter and biophysics* group (Georg August Universität Göttingen) (06/2009-01/2013).

Study of protein-induced pore stability via profiled parallel computing on multiprocessor clusters (molecular dynamics, Monte Carlo, and PDE solver) [c, c++, MPI, subversion].

Visualization of statistical properties of data and study on membrane morphology transformations [c++, Qt4, OpenGL, CGAL].

Master in physics (Università degli studi di Padova) (12/2006-03/2009).

Nanoparticle stability in lipid membranes via molecular dynamics simulations [c++, OpenGL].

Bachelor in physics (Università degli studi di Padova) (10/2002-12/2006).

Monte Carlo simulations of ion-defects' diffusion after distribution calculation of sputtering of silicon ions on a silicon lattice [c++, OpenGL].

Project Management for young scientists. Taking off as a project pilot.

Challenges and opportunities in management consulting - an interactive business simulation.

Tuning of parallel programs

Languages

Italian
English, German, Spanish
French, Portuguese
Swahili

Programming *(programming portfolio)*

c++, c, python, java

(revision control) subversion, bazaar *(text processing)* bash, sed, perl *(documentation)* doxygen *(IDE)* eclipse, netbeans

(math) matlab, octave, maple, root *(statistics)* R, SPSS

(client) html, css, xml, javascript, jquery, ajax *(server)* php, apache, samba

(relational) MySQL, postgresql, psql, pgadmin3 *(NoSQL)* neo4j

(graphics) OpenGL, Qt4, GTK+ *(scientific)* gsl, numpy, CGAL, MPI, openMP *(creative coding)* openFrameworks, processing, arduino

(visualization) mayavi, povray *(ERP/CRM)* openERP *(CAD)* librecad *(GIS)* qgis, openLayers

Volunteer Work

Service at the Mittagstisch Sankt Michael (Göttingen, Germany).

Visiting the institute João XXIII (Ponta Grossa, Paraná, Brazil).

Hobbies

Waterpolo, violin, luthery.

Diplomas, certificates, presentation letters.