

FRANCESCA FERRARI

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TECHNICAL SKILLS

Languages	Java, shell, sed, LaTeX, HTML, XML, CSS, PHP, JavaScript
Revision Control Systems	Git
Operating systems	UNIX, Linux, Mac OS X
Editors	vi, Eclipse
Databases	MySQL, SQLite
SDKs	Android development environment, JDK
Numerical and Statistical computing	MATLAB, GNU Octave, R, OriginLab
Other	AutoCAD, MCNP

Strong background in mathematics and advanced statistics, due to physics and nuclear engineering degree.

EDUCATION

City College of San Francisco

June 2011 – Present

JAVA Programming Certificate accomplished with GPA of 4.0.

Additional classes:

CS160B Unix / Linux shell scripting (A)
CS211D Android Programming (A)
CS155A MySQL Databases (A)
CS177 Software Engineering (A)
CNIT132 Intermediate HTML & XHTML (A)
CS260A UNIX/Linux System Admin. (A)
CS270 Comp. Architecture w/ Assembly (A)
CNIT133 Interactive Web Pages-JavaScript and AJAX (A)
CS130A PHP Programming (A)

University of California, Berkeley

January 2011– May 2011

NE150 Introduction to nuclear reactor theory (A-)
NE155 Introduction to numerical simulations in radiation transport (A)

Politecnico di Milano, Italy

October 2004 – October 2007

Master of Science in Nuclear Engineering

Grade: 107 / 110

Focus: sophisticated systems and applications of radiation for purposes other than energy production. Emphasis on statistics, risk assessment and analysis, mathematical models behind reliability and availability and system chaos theories.

Thesis: Analysis of High Enrichment Uranium Samples with Neutron Coincidence Counting

Politecnico di Milano, Italy

September 2001 – October 2004

Bachelor of Science in Physics Engineering

PROFESSIONAL EXPERIENCE

CCSF – San Francisco, California

January 2012 – May 2012

Student Grader

Thanks to the excellent job in the Fall 2011 semester for the “Data Structures and Algorithms – Java” class (CS 111C), graded homework for the online section in Spring 2012

Graded homework for the “Data Structures and Algorithms – Java” class (CS 111C).

SOGIN S.p.A. – Rome, Italy

January 2009 – April 2011

Junior Engineer

Worked within the Decommissioning & Waste Management (D&WM) Programme of the European Commission Joint Research Center (JRC) of Ispra, Italy.

SOGIN S.p.A. – Rome, Italy

July 2008 – December 2008

Intern

- Initiated work on projects related to the D&WM, JRC (see above).
- Planned and designed a database of nuclear procurement notices.
- Estimated costs for the operations, based on companies’ past experiences, and evaluated the necessary work to fulfill the procurement.

Politecnico di Milano & JRC – Ispra, Italy

June 2006 – June 2007

Researcher

At the JRC-Ispra Performance Laboratory (PERLA), Institute for the Protection and the Security of the Citizen (IPSC), worked on guidelines for IAEA and EURATOM inspectors who used Active Well Coincidence Counter (AWCC) instruments for verification measurements.

PUBLICATIONS

“Performance of an active well coincidence counter for HEU samples” - F. Ferrari and P. Peerani, Radiation Measurements Volume 45, Issues 9, October 2010, Pages 1034-1043.

LANGUAGES

- Italian: native speaker
- English: TOEFL (iBT), December 2010, 106/120