

EUROPEAN  
CURRICULUM VITAE  
FORMAT



PERSONAL INFORMATION

Name PASQUALE MINERVINI, MAURO  
Address 17, VIA CIFARIELLO, 70056, MOLFETTA, ITALY  
Telephone +39 080 3974369  
Cellphone +39 340 3342858  
E-mail [p.minervini@gmail.com](mailto:p.minervini@gmail.com)  
Nationality Italian  
Date of birth APRIL 2ND, 1985

WORK EXPERIENCE

- Dates (from – to) MAY 2009 – SEPTEMBER 2009
  - Name and address of employer Google Inc. - 1600 Amphitheatre Parkway, Mountain View, CA 94043
  - Type of business or sector Natural Language Processing, Machine Translation, Service-Oriented Architecture
  - Occupation or position held Contract Developer (through the Google Summer of Code 2009 program)
  - Main activities and responsibilities Designing and implementing a SOA-friendly, efficient and scalable architecture for Apertium, a Free/Open-Source Rule-Based Machine Translation platform developed at the Universitat d'Alacant (University of Alicante).
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- Dates (from – to) JUNE 2007 – OCTOBER 2007
  - Name and address of employer Dipartimento di Informatica, Università degli Studi di Bari – Via E. Orabona 4, 70125 Bari, Italy
  - Type of business or sector Intelligent Human-Computer Interfaces, Data Mining
  - Occupation or position held Collaborator
  - Main activities and responsibilities Study and design of techniques for first-order logic models characterization from natural language descriptions of behaviours in the area of the research project named "CHAT – Cultural Heritage fruition & e-learning applications of new Advanced (multimodal) Technologies".

EDUCATION AND TRAINING

- Dates (from – to) March 2007 – March 2010
- Name and type of organisation providing education and training Università degli Studi di Bari – Facoltà di Scienze Matematiche, Fisiche e Naturali: 2<sup>nd</sup> Laurea degree course in Computer Science (MSc), individual 2<sup>nd</sup> year's orientation.
- Principal subjects/occupational skills covered 2<sup>nd</sup> year's orientation was focused on the following topics: Knowledge Bases and Data Mining, Machine Learning, Multi-Agent Systems, Natural Language Processing, Network Collaboration.
- Title of qualification awarded Laurea Specialistica degree in Computer Science,  
Grade: **110/110, summa cum laude**,  
Thesis title: "Real-Time Machine Translation in eConference for Reducing Language Barriers".  
Thesis advisors: Prof. Filippo Lanubile, Dott. Fabio Calefato.

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

October 2003 – March 2007

Università degli Studi di Bari – Facoltà di Scienze Matematiche, Fisiche e Naturali: Laurea degree course in Computer Science (BSc), 3rd year's orientation: "Knowledge Based Systems". The "Knowledge Based Systems" address has the target of deepen the study of intensive knowledge systems, computational methods relative to decision-supporting expert systems, human-machine interaction methods, data integration systems and enterprise organization with new ICT methods.

Laurea degree in Computer Science,  
Grade: **110/110, summa cum laude**,

Thesis title: "[Theta-Subsumption of Horn clauses: reduction of a NP-complete problem to the Boolean Satisfiability Problem](#)".

Thesis advisors: Prof. Floriana Esposito, Prof. Nicola Di Mauro.

## PUBLICATIONS

- Pasquale Minervini: [Apertium goes SOA: an efficient and scalable service based on the Apertium rule-based machine translation platform](#). In J.A. Pérez-Ortiz and F. Sánchez-Martínez and F.M. Tyers, editor(s), Proceedings of the First International Workshop on Free/Open-Source Rule-Based Machine Translation ([FreeRBMT 2009](#)), ISBN-13: 978-8-46-136188-5, 59--65, Alacant, Spain, 2009.
- Fabio Calefato, Filippo Lanubile, Pasquale Minervini: [Can Real-Time Machine Translation Overcome Language Barriers in Distributed Requirements Engineering?](#) Accepted for presentation at the IEEE International Conference on Global Software Engineering ([ICGSE 2010](#)) in Princeton, August 23-26, and for publication in the conference proceedings.

## PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

**Italian**

OTHER LANGUAGES

**English**

- Reading skills
- Writing skills
- Verbal skills

Excellent  
Excellent  
Good

SOCIAL SKILLS AND COMPETENCES

Excellent in team work and cooperation – through working extensively in small working groups with methodical approach.

Strong communication skills, listening to others and communicating clearly – acquired through working on various projects. Negotiation and conflict management.

ORGANISATIONAL SKILLS AND COMPETENCES

In 2005, I participated to "Progetto Mentore", taking part to a series of workshops/laboratories on:

- creative intelligence,
- time management,
- group work,
- communicating with written documents,
- studying method.

COMPUTER SKILLS  
AND COMPETENCES

**Operating Systems:** Microsoft Windows, GNU/Linux, FreeBSD.  
**Programming Languages:** C/C++, Java, Microsoft Visual Basic .NET, Microsoft Visual C#, Intel x86 Assembly, MATLAB, PHP, Pascal, Perl, CLIPS, Prolog.  
**Markup Languages:** HTML/XHTML, LaTeX, XML (XML Schema, DTD, XSLT, XQuery), RDF (RDF Schema), OWL.  
**DBMS's:** MySQL, PostgreSQL, Microsoft SQL Server, Microsoft Access.  
**Development Enviroments:** Microsoft Visual Studio .NET, Eclipse, NetBeans, Protégé, MATLAB, Emacs.

OTHER SKILLS  
AND COMPETENCES

Solving complex problems, Passion for Writing Code.  
Interested in Photography and Technology. Sport: Swimming.

ADDITIONAL INFORMATION

During my studies and works, I realized (alone or in collaboration with others) the following projects:

- An efficient and scalable service for Rule-Based/Hybrid Machine Translation and n-gram based language recognition, available [online](#) and released under GNU Public License v3.
- A system which, in completely automatic mode, extracts and structures the information contained in Clinical Practice Guidelines (CPGs) from structured or semi-structured textual documents, implemented in C# and Asp.NET and using Microsoft SQL Server; a more detailed description about the project is available [online](#).
- A Statistical Relational Learning system, based on the [Aleph](#) ILP system, for inducing a Naïve Bayes classifier which uses features in First-Order Logic.
- A Service-Oriented Architecture for organizations working in the Healthcare sector making use of Complex Event Processing to leverage Risk Management (developed in collaboration with IBM's Innovation Lab In Bari, Italy).
- A multi-agent system to create and execute Data Mining tasks from data received from geographically distributed sensors, implemented in Java using [JADE](#) and [Weka](#) and available [online](#).
- A module for the [INTHELEX](#) Inductive Logic Programming system, implementing various techniques of unsupervised discretization of numeric attributes, written in Prolog and Java.
- A software capable to identify the FIPA Communicative Act (for example: ASKINFO, ACCEPT, OBJECT..) associated to a User Move (for example a sentence) using Latent Semantic Analysis, written in Java and available [online](#).
- An expert systems for cardiovascular diagnosis, written in Java and CLIPS and available [online](#).
- An expert system shell implementing a variant of Charles Forgy's *RETE* algorithm (an efficient pattern matching algorithm for production rule systems), written in C++.
- A barcode generator and manager, developed using Microsoft Visual Basic .NET, Microsoft Visual C# and Microsoft SQL Server, and a hotel manager, developed in Java using MySQL through the Object-relational mapping layer Hibernate.

I'm a developer of the [Apertium](#) project, a free/open-source platform for Natural Language Processing and Rule-Based/Hybrid Machine Translation. In the [WMT10](#) workshop's evaluations for Machine Translation systems, the winning system to translate from English to Spanish uses Apertium as one of its components.

I also have interests in computer and information security, like cryptography and software security issues; some examples of security flaws I discovered are available [online](#).