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, pasquale.minervini@uniba.it
Nationality	Italian
Date of birth	APRIL 2ND, 1985

WORK EXPERIENCE

• Dates (from – to)	JUNE 2010 – JANUARY 2011
• 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	Document Management, Information Extraction and Retrieval, Machine Learning
• Occupation or position held	Contract Developer
• Main activities and responsibilities	Worked on DOMINUS – A Document Management System implementing a broad range of functionalities, from Document Classification and Understanding on layout structure (employing First Order Logic theories, induced and revised using state-of-the-art Machine Learning techniques), to structure-driven Information Extraction and Retrieval (Latent Semantic Analysis, Quantitative/Qualitative Keyword Extraction, Text Categorization, Formal Concept Analysis etc.)
• Dates (from – to)	APRIL 2010
• Name and address of employer	Artificial Brain s.r.l. – Via Cadorna 8, 70010 Sammichele di Bari, Bari, Italy
• Type of business or sector	Signal and Event Processing
• Occupation or position held	Contract Developer
• Main activities and responsibilities	Signal Analysis and Event Triggering/Notification (by SNMP and Syslog protocols).
• 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).
• 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	Contract Developer
• 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 MIUR FAR research project named "CHAT – Cultural Heritage fruition & e-learning applications of new Advanced (multimodal) Technologies".

EDUCATION AND TRAINING

• Dates (from – to)	February 2011 – Today
• Name and type of organisation providing education and training	Università degli Studi di Bari "Aldo Moro" – Facoltà di Scienze Matematiche, Fisiche e Naturali: Ph.D. course in Computer Science (Dottorato di Ricerca in Informatica, XXVI ciclo), with merit-based scholarship from Università degli Studi di Bari (ranked 1st in the admission test).
• Principal subjects/occupational skills covered	Machine Learning and Data Mining.

• 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: 2nd Laurea degree course in Computer Science (MSc), individual 2nd year's orientation.
• Principal subjects/occupational skills covered	2nd 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)	October 2003 – March 2007
• Name and type of organisation providing education and training	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".
• Principal subjects/occupational skills covered	The "Knowledge Based Systems" address focuses on the study of intensive knowledge-based systems, computational methods relative to decision-supporting expert systems, human-machine interaction methods, data integration systems and enterprise organization with new ICT methods.
• Title of qualification awarded	*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?** Proceedings of the 5th IEEE International Conference on Global Software Engineering (ICGSE 2010), ISBN: 978-0-7695-4122-8, 257--264, Princeton, New Jersey , USA, 2010.

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE **Italian**

OTHER LANGUAGES

English

- Reading skills: Excellent
- Writing skills: Excellent
- Verbal skills: 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.