

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name **MARCO TURCHI**

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Nationality **Italian**

Date of birth **21/07/1975**

WORK EXPERIENCE

- Dates (from – to) *January 2007 – July 2009*
- Name and address of employer Department of Engineering Mathematics, University of Bristol
- Type of business or sector Statistical Multilingual Analysis for Retrieval and Translation (EU IST Project SMART (FP6-033917)), Web Mining, Machine Learning
- Occupation or position held Research Assistant Advisor: Prof. Nello Cristianini.
- Main activities and responsibilities *Researching different aspects of Statistical Machine Translation (SMT) using Machine Learning approaches. Includes a statistical and computational analysis of a SMT system, pointing out its learning capability under different conditions and performance limitations, and Confidence Estimation analysis of a SMT system.*

- Dates (from – to) *September 2006 – January 2007*
- Name and address of employer Department of Engineering Mathematics, University of Bristol
- Type of business or sector Machine Learning, Natural Language Processing and Web Mining.
- Occupation or position held Visiting Fellow Advisor: Prof. Nello Cristianini.
- Main activities and responsibilities Extraction and analysis of multimedia content from the Web focused on pattern analysis and named entity recognition from multilanguage news contents

- Dates (from – to) *March 2006 – September 06*
- Name and address of employer Xerox Research Centre Europe, Grenoble France
- Type of business or sector Automatic Hyperlink Assistant for Wikipedia Writer
- Occupation or position held Research Internship Advisors: Dr. Eric Gaussier and Dr. Cyril Goutte
- Main activities and responsibilities Analyzing how to automatically hyperlink “interesting” word or set of words in a document with external web pages that could help the reader to understand the content of the document. Includes using of probabilistic and string methods.

- Dates (from – to) *September 2005 – March 2006*
- Name and address of employer Statistics Department, University of California, Davis
- Type of business or sector Machine Learning, Natural Language Processing and Web Mining.

- Occupation or position held
- Main activities and responsibilities

Visiting Fellow Advisor: Prof. Nello Cristianini

Researching and studying the introduction of the variable “time” in document representation. This has produced two different analysis:

- given a sequence of written documents in different languages, find temporal relations among languages (language evolution);
- given a sequence of documents in time, find patterns which merge textual information and temporal relations.

- Dates (from – to)

June 2005 - September 2005

- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

Yahoo Research Lab, Pasadena California U.S.

Feature Selection using unlabelled documents

Research Internship Advisor: Dr. Dennis De Coste

Researching alternative feature selection methods for unlabelled data using SVM, LDA, PCA and clustering algorithms.

- Dates (from – to)

December 1995 - current

- Main activities and responsibilities

Several experiences as:

- Lecturer and Network Administrator of Windows 2000
- Programmer and System Administrator
- Student Co-advisor for Master and Degree thesis on Text Analysis
- Reviewer of international conferences and journals

EDUCATION AND TRAINING

- Dates (from – to)

October 2002 - March 2006

- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

Department of Information Engineering, University of Siena

Doctor in “Computer Engineering, adaptive information processing”

Title of PhD Thesis: “Time Series Analysis of Textual Data” Supervisor: Prof. M. Maggini
PhD

- Dates (from – to)

2001/2002

- Name and type of organization providing education and training
- Principal subjects/occupational skills covered

Department of Information Engineering, University of Siena

Master degree in Information Engineering, University of Siena.

Title of the Dissertation: “Detection of Web page components: an approach based on visual layout” Supervisor: Prof. Ing. Marco Maggini, Ing. Michelangelo Diligenti

- Title of qualification awarded
- Level in national classification (if appropriate)

MS

Marks: 102/110

PERSONAL SKILLS AND COMPETENCES

TECHNICAL SKILLS AND COMPETENCES

- EXCELLENT IN JAVA, PYTHON, MATLAB, MYSQL AND LINUX.
- BASIC KNOWLEDGE OF ANSI C, C++, HTML, PERL.
- EXCELLENT USER’S EXPERIENCE OF JAVA SEARCH ENGINE: APACHE LUCENE, GENERAL ARCHITECTURE FOR TEXT ENGINEERING: GATE, WEKA, APACHE CAYENNE, STATISTICAL MACHINE TRANSLATION TOOLKIT MOSES, LINGPIPE, SCIPY.
- EXCELLENT EXPERIENCE OF HIGH PERFORMANCE COMPUTING (HPC), LARGE-SCALE DATASET

Italian	Mother Tongue
English	Proficient
French	Basic

**ORGANIZATIONAL SKILLS
AND COMPETENCES**

ORGANIZER OF:

1. INTELLIGENT ANALYSIS AND PROCESSING OF WEB NEWS CONTENT WORKSHOP AT WI-IAT - MILAN 15 SEPTEMBER 2009
2. STATISTICAL MULTILINGUAL ANALYSIS FOR RETRIEVAL AND TRANSLATION ASSOCIATED WORKSHOP AT EAMT - BARCELONA 13 MAY 2009
3. EUROPEAN PROJECT SMART MEETING IN BRISTOL, MAY, 2008.

COORDINATOR AND HEAD COACH OF BASKETBALL TEAMS FROM SEPTEMBER 1993.

STUDENT CO-ADVISOR FOR MASTER AND DEGREE THESIS ON TEXT ANALYSIS.

ORAL PRESENTATION

SEVERAL PLATFORM PRESENTATIONS TO INTERNATIONAL CONFERENCES AND WORKSHOPS.

SELECTED CONFERENCES:

- THIRD WORKSHOP ON STATISTICAL MACHINE TRANSLATION, ACL'08
- IEEE/WIC/ACM INTERNATIONAL JOINT CONFERENCE ON WEB INTELLIGENCE WI'04

**ADDITIONAL
INFORMATION**

PUBLICATIONS

JOURNAL PAPERS:

- M. BRESKO, M. TURCHI, T. DE BIE, N. CRISTIANINI "MODELLING SEQUENCE EVOLUTION WITH KERNEL", COMPUTATIONAL OPTIMIZATION AND APPLICATIONS JOURNAL, 2007.

REVIEWED BOOK CHAPTERS:

- M. TURCHI, A. MAMMONE, N. CRISTIANINI "ANALYSIS OF TEXT PATTERNS USING KERNEL METHODS". TEXT MINING: THEORY AND APPLICATIONS. EDITORS: ASHOK N. SRIVASTAVA AND MEHRAN SAHAMI IN PRESS: TAYLOR AND FRANCIS PUBLISHER, 2008.
- A. MAMMONE, M. TURCHI, N. CRISTIANINI "SUPPORT VECTOR MACHINES". WIRES: WILEY'S INTERDISCIPLINARY REVIEWS IN COMPUTATIONAL STATISTICS. EDITORS: EDWARD J. WEGMAN, YASMIN H. SAID AND DAVID W. SCOTT LAUNCHING ONLINE: JUNE 2009. TO APPEAR.

PEER-REVIEWED CONFERENCE PAPERS:

- L.SPECIA *, M. TURCHI *, N. CANCEDDA, M. DYMETMAN AND N. CRISTIANINI "ESTIMATING THE SENTENCE-LEVEL QUALITY OF MACHINE TRANSLATION SYSTEMS", EAMT 2009, BARCELONA, SPAIN, MAY 2009 (* EQUAL CONTRIBUTORS.)
- M. TURCHI, T. DE BIE, N. CRISTIANINI "LEARNING PERFORMANCE OF A MACHINE TRANSLATION SYSTEM: A STATISTICAL AND COMPUTATIONAL ANALYSIS", IN PROCEEDINGS OF THE ACL 2008 THIRD WORKSHOP ON STATISTICAL MACHINE TRANSLATION, JUNE 2008.
- M. TURCHI, N. CRISTIANINI "A STATISTICAL ANALYSIS OF LANGUAGE EVOLUTION" IN PROCEEDING OF EVOLUTION OF LANGUAGE SIXTH INTERNATIONAL CONFERENCE ROME, 12-15 APRIL 2006.
- M. TURCHI, L. RIGUTINI, M. MAGGINI "PSEUDO-SUPERVISED CLUSTERING FOR TEXT DOCUMENTS", IN PROCEEDING OF IEEE/WIC/ACM INTERNATIONAL JOINT CONFERENCE ON WEB INTELLIGENCE, WI'04, BEIJING, SEPTEMBER 2004

PROJECTS

SMART, Pascal, Pascal 2, Pascal Pump Priming Project (Semantic Information Extraction using Integrated Probabilistic Techniques).

SELECTED COURSES

- SUMMER SCHOOL ON PROBABILISTIC TECHNIQUES IN COMPUTER SCIENCE, BRISTOL, JULY 6 - 11 2008.
- THE 2008 UK SYMPOSIUM ON KNOWLEDGE DISCOVERY AND DATA MINING , BRISTOL UK, 16 APRIL 2008.
- THE ANALYSIS OF PATTERNS, UNIVERSITY RESIDENTIAL CENTER BERTINORO (FORLÌ-CESENA), ITALY, OCTOBER, 2007.
- MLSS, MACHINE LEARNING SUMMER SCHOOL, MAX PLANCK CAMPUS, TÜBINGEN, GERMANY, AUGUST , 2007.
- FIRST MACHINE TRANSLATION MARATHON, EDINBURGH UNIVERSITY, EDINBURGH, SCOTLAND, APRIL, 2007.
- THE ANALYSIS OF PATTERNS INTERNATIONAL SCHOOL "EDUARDO R. CAIANIELLO", ERICE, ITALY, 2005.

COLLABORATION

Xerox Research Centre Europe, Grenoble, France
National Research Council Canada, Gatineau, QC, Canada

More information about me and my research are available on my website.

References: available upon request.