

# Maurizio Marek - Curriculum Vitæ (updated July 26, 2011)



## Personal information

Surname(s) / First name(s) **Maurizio Marek (MRZMRK78A24G224R)**  
Address(es) Via Bajardi 47 35129 Padova(PD) Italia  
Telephone(s) +39 041 2348452 Mobile: +39 340 5027210  
Email(s) marek@dsi.unive.it, marek.maurizio@gmail.com  
Nationality(-ies) Italian  
Date of birth Born in Padova, Jan 24 1978  
Gender M

## Education

Date	01/05/2011 - now
Description	Research grant with the Computer Science department of the Ca' Foscari University in Venice: "Turismo EX CENTRO: itinerari culturali tailor-made per la promozione dei centri minori del territorio veneto" (promoting cultural tourism itineraries through the less-known cities of the Veneto italian region). Design and development of a server-side system where domain-experts can mash-up existing information from well-known web services to compile a multimedia guide. Design and development of a client-side application to let visitors access personalized information and contribute to the social aspect of the project. Technologies: HTML5, CSS3, Javascript, Ruby on Rails 3.1, HAML, Coffeescript, jQuery. Duration of the grant: 12 months. Tutor: Prof. Augusto Celentano, faculty member at Department of Environmental Sciences, Informatics and Statistics, Università Ca' Foscari Venezia. (ING/ING-05)
Name of the institution	Department of Computer Science, Ca' Foscari University (Venice), Via Torino 155 Mestre Venezia (VE), Italia
Date	01/02/2010 - 01/02/2011
Description	Research grant with the Computer Science department of the Ca' Foscari University in Venice. Design and development of multimedia interactive systems to experiment new ways of enjoy artwork in the italian Veneto territory. Design of a specialized development system for multimedia applications in the field of cultural heritage. Duration of the grant: 12 months. Tutor: Prof. Augusto Celentano (ING/ING-05)
Name of the institution	Department of Computer Science, Ca' Foscari University (Venice), Via Torino 155 Mestre Venezia (VE), Italia
Date	01/11/2006 - 01/11/2009
Description	PhD in Computer Science with the Computer Science department of the Ca' Foscari University in Venice. Design and development of Manuzio, a novel functional object-oriented language with persistent capabilities and constructs specific to deal with literary analysis algorithms. The language is meant to be used in conjunction with a system to allow experts of the domain of application to formulate queries and write annotations on texts in an easy and natural way. Results have been discussed in the PhD thesis: "Manuzio: an Object Language for Annotated Text Collections". Tutor: Prof. Renzo Orsini, faculty member at Department of Environmental Sciences, Informatics and Statistics.

Name of the institution | Department of Computer Science, Ca' Foscari University (Venice), Via Torino 155  
Mestre Venezia (VE), Italia

Date | 01/09/1998 - 03/03/2005

Name of the degree | Master's Degree in Computer Science (105/110)

Main study subjects | In the 5-years span all the main computer science topics have been explored, with a particular attention to Networks and Programming Languages. At the end of the studies the master thesis "Ca' Foscari Digital Press: Documenti Elettronici e Mezzi di Pagamento" have been presented, dealing with the problem of digital press inside the university environment.

Name of the institution | Department of Computer Science, Ca' Foscari University (Venice), Via Torino 155  
Mestre Venezia (VE), Italia

Date | 01/09/1993 - 01/07/1998

Name of the degree | Graduate as "Perito Capotecnico Informatico" (60/60)

Main study subjects | Computer science in general, C programming, operating systems, mathematics, physics, statistics

Name of the institution | ITIS F.Severi, Via Pettinati 46 Padova (PD), Italia

## Work Experiences

Date | 01/10/2008 - 09/01/2009

Occupation or position held | Web Designer

Main activities and responsibilities | Design and development of static websites (2)

Name and address of employer | Bioprogramm - via Lisbona, 28/a 35127 Padova (PD) Italia

Type of business or sector | Web Design

Date | 15/01/2006 - 15/05/2006

Occupation or position held | Ruby on Rails Programmer

Main activities and responsibilities | Design and development of an interactive glossary to store environmental data about the Venice lagoon. Tutor: Prof. Renzo Orsini, faculty member at Department of Environmental Sciences, Informatics and Statistics

Name and address of employer | Ca' Foscari University, Venice (VE) Italia e Consorzio per il coordinamento delle ricerche sul sistema lagunare, Venezia (VE) Italia

Type of business or sector | Research on database systems and user interfaces

Date | 01/06/2005 - 01/06/2009

Occupation or position held | Computer science teacher for high school students

Main activities and responsibilities | Teaching of computer science and other scientific courses to singles or small groups of students.

Name and address of employer | Associazione "La Guida" - Via Crescini 6 - 35126 Padova (PD) Italia.

Type of business or sector | Education

Date | 01/02/2005 - 01/03/2007

Occupation or position held | Web Designer

Main activities and responsibilities | Design and development of static websites (2)

Name and address of employer | Hedra Immobiliare - Via San Crispino n°72, 35129 Padova (PD) Italia

Type of business or sector	Web Design
Date	01/09/2000 - 01/12/2000
Occupation or position held	Database Designer
Main activities and responsibilities	Design and development of a small database.
Name and address of employer	Cooperativa "Nuovo Villaggio". Via del Commissario, 42 - 35124 Padova(PD) Italia
Type of business or sector	Database Design
Date	01/01/2007 - 01/06/2007
Main activities and responsibilities	Tutorship activity for the course of physics "Fondamenti di Fisica" held by the prof. Romana Frattini at the Ca' Foscari University in Venice. Theory and practical exercises (25 hours).
Date	01/09/2010 - 01/09/2011
Main activities and responsibilities	Temporary professor of E-commerce (CT0158) at the Ca' Foscari University in Venice. (42 hours, 6 CFU).
Name and address of employer	University Ca' Foscari - Venice
Date	01/03/2010 - 10/05/2010
Occupation or position held	Occasional work with research activities
Main activities and responsibilities	In the context of the exhibition " <i>Russie! Memoria/mistificazione/immaginario. Arte Russa del Novecento. Opere dalle collezioni Morgante e Sandretti</i> " on russian art held in Venice: design and development of a multimedia guide on the Apple iPod Touch platform to store information about the presented artworks and allow visitors to access them in a simple way. Subsequent study of frequent patterns on the visitors behavior. Tutor: Augusto Celentano, faculty member at Department of Environmental Sciences, Informatics and Statistics. Duration: 40 days
Name and address of employer	Ca' Foscari University - Venice
Type of business or sector	ING/INF-05
Date	01/08/2010 - 10/09/2010
Occupation or position held	Occasional work with research activities
Main activities and responsibilities	Development of a web application to be used with iPod Touches/iPhones in the context of the project " <i>NoPlaceLike: 4 Houses 4 Films - Pavilion of Portugal - 12' Mostra Internazionale di Architettura - La Biennale di Venezia</i> " held at the architecture biennale in Venice. The application was used to present additional contents to the visitors of the exhibition. Tutor: Augusto Celentano, faculty member at Department of Environmental Sciences, Informatics and Statistics. Duration: 40 days
Name and address of employer	Ca' Foscari University - Venice
Type of business or sector	ING/INF-05
Date	01/10/2010 - now
Occupation or position held	Occasional work with research activities

Main activities and responsibilities	Web developer for two university-related websites: “AsiaMedia - il portale dedicato ai media asiatici ( <a href="http://asiamedia.dsi.unive.it">asiamedia.dsi.unive.it</a> )” e “Ca’ Foscari Cinema ( <a href="http://cafoscaricinema.dsi.unive.it">cafoscaricinema.dsi.unive.it</a> )”. Starting from an already-made design, the Drupal 6 CMS has been used to allow content insertion and editing by non-experts, using custom php modules, HTML5, and CSS3. Tutor: Roberta Novielli, faculty member at Department of the History of Art and Conservation of Artistic Heritage “G. Mazzariol”, Università Ca’ Foscari Venezia.
Name and address of employer Type of business or sector	Ca’ Foscari University - Venice ING/INF-05
Date	15/7/2011 - now
Occupation or position held Main activities and responsibilities	Occasional work with research activities Web designer and developer for a Wordpress-based website. Using Wordpress as a CMS through the development of custom modules and the use of existing plugins. The website will be used to promote a novel service of e-printing in the Ca’ Foscari University, allowing users to subscribe, create their own online academic profile, and submit publications. Technologies: HTML5, CSS3, Wordpress 3, Php 5.x. Tutor: Roberta Novielli, faculty member at Department of the History of Art and Conservation of Artistic Heritage “G. Mazzariol”, Università Ca’ Foscari Venezia.
Name and address of employer Type of business or sector	Ca’ Foscari University - Venice ING/INF-05

## Websites

My personal website

<http://www.dsi.unive.it/~marek>

My personal website to post information about me, my teaching activities, and my research work. Technologies: HTML5, CSS3, Photoshop CS5. Created in 2011.

Hotel Quattrovalli

<http://www.quattrovalli.com>

A static hotel website with an original design. Technologies: HTML5, CSS3, Photoshop CS5. Created in 2010.

## Scientific Activity

Date  
Main activities and responsibilities

01/11/2006 - 01/11/2009

### Computational Humanities

In the context of the PRIN project “Musisque deoque II. Un archivio digitale dinamico di poesia latina, dalle origini al Rinascimento italiano”, sponsored by the Italian MIUR, the PhD thesis “Manuzio: an Object Language for Annotated Text Collections” has been written. The thesis presents:

1. a specialized model to code literary texts in digital form that captures complex textual structures and multiple concurrent hierarchies;
2. a functional object-oriented language with persistent capabilities and constructs specific to deal with literary analysis algorithms;
3. a database structure to store texts and make them accessible from the language;
4. the guidelines for a complete system to store, analyze, and annotate complete textual corpora in a concurrent environment.

In the implementation phase an interpreter for the language has been developed and tested with two textual corpora (Shakespeare’s plays and Eugenio Montale’s poems). Results have been presented in different international conferences (see *Publications*).

Date 01/02/2010 - 01/02/2011  
 Main activities and responsibilities **Multimedia systems for the fruition of cultural heritage** During the PhD the research activity also touched the problem of integration between multimedia systems and art exhibition spaces. An experiment has been conducted in the exhibitions “Nigra Sum sed Formosa, sacro e bellezza nell’Etiopia cristiana” and “Bruce Nauman: Topological Gardens” both held in Venice. An iPod Touch application has been used to present visitors with rich information about the artworks. Results of the studies on user interfaces and user behavior have been published and presented at international conferences (see *Publications*).

Date 01/02/2010 - 01/02/2011  
 Main activities and responsibilities **Research fellow with the Fondo Social Europeo project: Sviluppo di sistemi multimediali interattivi e dei relativi contenuti informativi per sperimentare nuovi sistemi per la fruizione delle opere d’arte nel territorio veneto (multimedia interactive systems for cultural heritage on the Veneto territory).** Study of the state of art of technologies in the topic of multimedia systems for the fruition of artworks and cultural heritage in general. A content management system to store museum data have been developed and used to aid the production of multimedia guides on iPod Touches. Development of an art guide for the exhibition spaces of Punta della Dogana in Venice, featuring a collection of contemporary art pieces.  
 Tutor: Augusto Celentano, faculty member at Department of Environmental Sciences, Informatics and Statistics (ING/INF-05) Duration: 1 year

Date 01/05/2011 - now  
 Main activities and responsibilities **Research fellow with the Fondo Social Europeo project: Turismo EX CENTRO: itinerari culturali tailor-made per la promozione dei centri minori del territorio veneto (ex-centro tourism: personalized cultural itineraries to promote the less-know center of the Veneto territory).** Study of the state of art of technologies in the topic of multimedia systems for the fruition of artworks and cultural heritage in the context of the Veneto italian region tourism. Design and development of a server-side system where domain-experts can mash-up existing information from well-known web services to compile a multimedia guide. Design and development of a client-side application to let visitors access personalized information and contribute to the social aspect of the project.  
 Tutor: Augusto Celentano, faculty member at Department of Environmental Sciences, Informatics and Statistics (ING/INF-05) Duration: 1 year

## Post-doc Schools and Courses

PhD Courses **Probabilistic Model Checking** Prof. Marta Kwiatkowska, University of Birmingham (UK)  
 Hours: 20  
 Place: Bertinoro International Spring School 07

PhD Course **Probabilistic Methods in Computer Science** Professor: Prof. Eli Upfal, Brown University (USA)  
 Hours: 20  
 Place: Bertinoro International Spring School '07

PhD Course **Methods for Image Reconstructions with Applications in Medicine and Astronomy** Professor: Prof. Michele Piana, University of Verona (Italia)  
 Hours: 20  
 Place: Bertinoro International Spring School '07

PhD Course	<b>Foundations of XML Data Manipulation</b> Professor: Prof. Giorgio Ghelli, University of Pisa (Italia) Hours: 20 Place: Bertinoro International Spring School '07
PhD Course	<b>Algorithms and Methods for Bioinformatics: a case studies approach</b> Professor: Prof. Nello Cristianini, University of Bristol Hours: 20 Place: Dipartimento di Matematica Pura ed Applicata - Università di Padova
PhD Course	<b>Kernel-based Learning Methods</b> Professor: Dr. Massimiliano Pontil, University College London, UK Hours: 20 Place: Dipartimento di Informatica - Università Ca' Foscari di Venezia
PhD School	<b>Marie Curie Project DESIRE: Theories of Creative Design for innovation in science and technology</b> Place: Palazzo Feltrinelli – Università degli Studi di Milano Hours: 60 Gargnano del Garda (BS), Italia - September 20-26, 2009
PhD Course	<b>From Mobility Data Management to Location-based Services</b> Prof. Yannis Theodoridis, University of Piraeus (UniPi) Hours: 20 Place: 14-18 Giugno 2010 - Ca' Foscari University, Venice
PhD Course	<b>Object Databases</b> Prof. Renzo Orsini, Ca' Foscari University, Venice Hours: 20 Place: Ca' Foscari University, Venice

## Skills

Organizational skills	Organizational skills in the field of teaching on theoretical and practical computer science topics.
Social skills	Decent social skills, good ability to work in groups with people of different background. Experiences of group work with humanities researchers and museum experts.
Design Skills	Able to use Photoshop and Omnigraffle for editorial and web design. Experiences with the design of posters and leaflets for conferences (e.g. GARR'09, see <i>publications</i> and events (e.g. Venice Researcher's Night 2010 and Ca' Foscari Digital Week 2011).
Computer Skills	<ul style="list-style-type: none"> <li>– <b>Operating Systems:</b> <i>Windows</i> (XP, Vista e 7), <i>Linux</i> and <i>Mac OS X</i> (Leopard, Snow Leopard, and server).</li> <li>– <b>Applications:</b> good expertise with office suites <i>MS Office (2007 and up)</i> and <i>iWork ('09 and up)</i>. Good knowledge of graphical applications for web design <i>Photoshop</i>. <i>Pixelmator</i>. Good knowledge of <i>Omnigraffle Professional</i>.</li> <li>– <b>Programming languages:</b> Good knowledge of <i>C</i> and <i>Objective-C</i>. Academic knowledge of <i>Java</i>. Excellent skill with <i>Ruby 1.8.x and 1.9.x</i>. Good skill in <i>Javascript</i> and <i>jQuery</i>. Basic knowledge of <i>php 5</i> and others.</li> <li>– <b>Frameworks:</b> Good knowledge of <i>iOS SDK 3.x e 4.x</i> for iPod Touch, iPhone ed iPad programming. Good knowledge of the framework <i>Rails 2.x e 3.x</i> for web applications programming.</li> <li>– <b>Web Programming:</b> Excellent knowledge of <i>HTML 4 e 5</i> and <i>CSS 2.x e 3</i>. Good knowledge of the Content Management System <i>Drupal 6</i> and the blogging system <i>WordPress 3</i>. A (yet) basic knowledge of <i>Coffeescript</i>, <i>SASS</i>, and <i>HAML</i>.</li> <li>– <b>Other:</b> Good skill with the <i>LaTeX</i> typesetting language. Basic video game programming skill on iOS with the <i>cocos2d</i> framework, acquired for fun.</li> </ul>

## Other Information

Driving License

Italian driving license type B issued on May 15 1996

## Languages

Mother tongue(s)

*Self-assessment  
European level<sup>(\*)</sup>*

**English**

## Italian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

## Publications

- MAURIZIO M., CELENTANO A. (2011). An End-User Oriented Building Pattern for Multimedia Art Guides. In: IS-EUD 2011 Third International Symposium on End-User Development - June 7-10, 2011. Torre Canne (Brindisi), Italy.
- MAURIZIO M., CEFALÙ V., DEL MONTE M., CELENTANO A. (2011). Building own's guided tour in a contemporary art guide. In: PATCH 2011 : 3rd International Workshop on Personalized Access To Cultural Heritage. Feb 13, 2011 - Feb 13, 2011 Palo Alto, CA United States.
- CELENTANO A., ORSINI R., MAURIZIO M. (2010). Content Management for Mobile Multimedia Art Guides. In: Italian Symposium on Advanced Database Systems. Rimini, June 2010
- CEFALÙ V., MAURIZIO M. (2010). Punta della Dogana, prima e dopo. In: Convegno internazionale di studi Far Vedere Far Comprendere: cinema, fruizione, multimedialità. 7-8 Luglio 2010, Venezia.
- MAURIZIO M., RENZO O. (2010). Manuzio: A Model for Digital Annotated Text and its Query/Programming Language. In: The European Conference on Research and Advanced Technology for Digital Libraries. Glasgow, September 2010
- MAURIZIO M., ORSINI R. (2010). Manuzio: An Object Language for Annotated Text Collections. IIR 2010. In: Italian Information Retrieval Workshop. Padova, January 2010, p. 104
- MAURIZIO M., ORSINI R. (2010). A Model and a Language for Large Textual Databases. In: Italian Symposium on Advanced Database Systems. Rimini, June 2010
- BARBIERI G., CELENTANO A., FINOCCHI V., MAURIZIO M., ORSINI R., PITTARELLO F. (2010). Experience with Interactive Multimedia Art Guides, Demo. AVI 2010 - Advanced Visual Interfaces Roma, Italy May 25-29, 2010.
- MAURIZIO M., ORSINI R. (2009). Manuzio: an Object Language for Annotated Text Collections. In: Trends in computational philology. An italian overview. (LEXIS) Venice, 22-24 May 2008, ISBN/ISSN: 97899025612535
- FINOCCHI V., MAURIZIO M. (2009). Multimedialità e fruizione interattiva, Poster conferenza GARR 2009 "Network Humanitatis - linguaggi, risorse, persone", October 2009
- MAURIZIO M. (2009). Manuzio: an Object Language for Annotated Text Collections, Phd Thesis
- MAURIZIO M., ORSINI R. (2009). A model and a language for representing and manipulating annotated text collections, Technical Report

## Attachemts

Attachment A

Master's degree certificate with exams (italian)

## Allegato A: Esami universitari sostenuti

Si certifica che MAURIZIO MAREK nato il 24/01/1978 a PADOVA (PD), ha superato l' esame di LAUREA il giorno 04/03/2005 riportando punti 105 su 110 ed e' stato proclamato Dottore in INFORMATICA .

Si certifica inoltre che in base al DM 270/2004 coloro che sono in possesso di laurea il cui ordinamento e' antecedente al DM 509/99 possono fregiarsi del titolo di dottore magistrale.

- PROGRAMMAZIONE TRENTA E LODE 09/02/1999
- LAB. DI INFORMATICA (PROGR.) TRENTA E LODE 09/02/1999 SEMESTRALE
- MATEMATICA DISCRETA VENTISEI— 01/03/1999
- ANALISI MATEMATICA I VENTISEI— 21/06/1999
- ARCHITETTURA DEGLI ELABORATORI TRENTA E LODE 23/06/1999
- LAB. INFOR. (ARCH. ELABORAT) TRENTA E LODE 23/06/1999 SEMESTRALE
- ANALISI MATEMATICA II VENTIQUATTRO- 17/01/2000 SEMESTRALE
- SISTEMI OPERATIVI TRENTA— 15/02/2000
- LAB. INFOR. (SISTEMI OPERATIVI TRENTA— 15/02/2000 SEMESTRALE
- ALGORITMI E STRUTTURE DATI VENTIQUATTRO- 07/06/2000
- LAB. DI INFORMATICA (A.S.D.) VENTIQUATTRO- 07/06/2000 SEMESTRALE
- LOGICA MATEMATICA VENTUNO— 12/06/2000 SEMESTRALE
- FISICA GENERALE I VENTITRE— 12/06/2000
- FISICA GENERALE II VENTISETTE— 25/01/2001 SEMESTRALE
- CALC. PROBAB. E STAT. MATEMAT. VENTIDUE— 22/02/2001 SEMESTRALE
- BASI DATI E SIST. INFORMATIVI TRENTA— 22/02/2001
- INFORMATICA TEORICA VENTISETTE— 11/06/2001
- ARCH. DEGLI ELABORATORI II VENTOTTO— 13/06/2001
- RICERCA OPERATIVA VENTISEI— 16/07/2001 SEMESTRALE
- INGEGNERIA DEL SOFTWARE VENTISETTE— 05/02/2002 SEMESTRALE
- SIST.ELAB.INFORM. (VAL. PREST) VENTISETTE— 22/02/2002 SEMESTRALE
- LAB.INF.(INGEGNERIA SOFTWARE) VENTINOVE— 20/06/2002 SEMESTRALE
- LAB. INFORM. (BASI DI DATI) TRENTA— 26/06/2002 SEMESTRALE
- INFORM. APPLIC.(COMM. ELETTR.) VENTITRE— 03/07/2002 SEMESTRALE
- LINGUAGGI DI PROGRAMMAZIONE VENTOTTO— 20/02/2003
- SIST. ELAB. INF. (SICUREZZA) VENTISEI— 24/06/2003 SEMESTRALE