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Sex: Male

Nationality: Italian

EDUCATION

1994 - 2000: University of Milano-Bicocca, Milano, Italy
Degree in Environmental Sciences
Final grade: 110/110

1989 - 1994: IT High School, A. Badoni, Lecco
Final grade: 52/60

PROFESSIONAL EXPERIENCES

November 2004 - Now PhD project in Chemical Sciences on a molecular descriptor-based approach for protein characterization, University of Milano-Bicocca, Department of Environmental Sciences.

Scientific consulting and software development at Talete company.

Ongoing collaboration with Milano Chemometrics and QSAR Research Group led by Professor Roberto Todeschini, at University of Milano-Bicocca; research related to Multivariate statistical analysis techniques and statistical software development.

April 2002 - April 2004: Collaboration in the project for the creation of the Virtual Institute for Chemometrics and Industrial Metrology (VICIM)

Collaboration in the INTAS project for the creation of the Virtual Computational Chemistry Laboratory (VCCLAB) with respect to the E-DRAGON application.

March 2004 Teaching-Assistant in the Second Italian School on Molecular Descriptors, Talete srl, University of Milano-Bicocca, Milano (Italy)

January 2001 - November 2001	Civil Service with Associazione Comunità Papa Giovanni XXIII, Rimini. March 2001, Chiapas, Mexico. June – November 2001, Ndola, Zambia.
June 2000	Teaching-Assistant for the graduate course of "Diseño Experimental y Optimización de Procesos" in the Ecuadorian Master "Programa de Postgrado de Maestría en Gestión Tecnológica", Universidad Del Azuay (UDA), Cuenca (Ecuador)

SOFTWARE DEVELOPED

- Co-author of **DRAGON** and **dragonX** softwares. DRAGON is a software package for the calculation of molecular descriptors distributed by Talete srl.
- Co-author of **MOBYDIGS** software: MOBYDIGS is a software package distributed by Talete srl for the calculation of regression models by using genetic algorithms for variable selection to obtain an optimal subset of predictive models.
- Co-author of **SmartEditor Plus** software distributed by Ideatech srl

SCHOOLS

- MATH/CHEM/COMP 2006. The 21st International Course & Conference on the Interfaces among Mathematics, Chemistry & Computer Sciences, Dubrovnik, Croatia, June 19-24, 2006
- Chemoinformatics in Europe: Research and Teaching, Obernai, France, 29 May - 1 June 2006
- "Scuola Nazionale di Chimica Analitica per Dottorandi", School of Analytical Chemistry for PhD Students, Rocca di Papa (RM), October 3-7, 2005
- Introduction to methods of Experimental Design, Chemometric School, Milano, June 29, 2004
- Colloquium Chemometricum Mediterraneum, Ustica, June 25-27, 2003
- First Italian School on Molecular Descriptors, Italian Society of Chemometrics, Gargnano del Garda, September 28-30, 1998

POSTERS

- "On the characterization of proteomic maps by a novel similarity/diversity", A.Mauri, V.Consonni and R.Todeschini. *Chemoinformatics in Europe: Research and Teaching*, Obernai, France, 29 May - 1 June 2006
- "Comparison of several different fitness functions in regression models." A.Mauri, D.Ballabio, V.Consonni, M.Pavan and R.Todeschini. *Colloquium Chemometricum Mediterraneum*, Ustica, Italy, 25 – 27 June 2003
- "Data mining by a partial ranking strategy (Hasse Diagram Technique, HDT)" M.Pavan, A.Mauri, V.Consonni, D.Ballabio and R.Todeschini. *Colloquium Chemometricum Mediterraneum*, Ustica, Italy, 25 – 27 June 2003
- "New fitness functions to avoid bad regression models in variable subset selection by Genetic Algorithms." R.Todeschini, V.Consonni, A.Mauri, M.Pavan *14 TH European Symposium on quantitative structure-activity relationships*, Bournemouth, UK, 8-13 September 2002.

PAPERS

- DRAGON Software: An Easy Approach to Molecular Descriptor Calculations (2006). A. Mauri, V. Consonni, M. Pavan, R. Todeschini. *Match: communication mathematical computer chemistry*. **56**, 237-248
- CAIMAN (Classification And Influence Matrix Analysis): a new approach to the classification based on leverage-scaled functions. R. Todeschini, D. Ballabio, V. Consonni, A. Mauri, M. Pavan. *Chemometrics and Intelligent*

Laboratory Systems, in press

- Geographical classification of wine and olive oil by means of CAIMAN (Classification And Influence Matrix Analysis) (2006). D. Ballabio, A. Mauri, R. Todeschini, S. Buratti. *Analytica Chimica Acta*. **570**, 249-258
- Virtual computational chemistry laboratory – design and description (2005). I.V.Tetko, J.Gasteiger, R.Todeschini, A.Mauri, D.Livingstone, P.Ertl, V.A.Palyulin, E.V.Radchenko, N.S.Zefirov, A.S.Makarenko, V.Y.Tanchuk and V.V.Prokopenko. *Journal of Computer-Aided Molecular Design*. **19**, 453-456
- Detecting ‘bad’ regression models: multicriteria fitness functions in regression analysis. (2004). R.Todeschini, V.Consonni, A.Mauri and M.Pavan. *Analytica Chimica Acta*. **515**, 199-208
- MobyDigs: software for regression and classification models by genetic algorithms. (2004). R.Todeschini, V.Consonni, A.Mauri and M.Pavan in “Nature-inspired methods in chemometrics: genetic algorithms and artificial neural networks” (R.Leardi E.), Chapter 5, p.141-167 – Elsevier, 2004
- New fitness functions to avoid bad regression models in variable subset selection by Genetic Algorithms. (2004). R.Todeschini, V.Consonni, A.Mauri and M.Pavan in “Designing Drugs and Crop Protectants: processes, problems and solutions.” (M.Ford, D.Livingstone, J.Deardean, H.van de Waterbeemd Ed.), Chapter 5, p.323-325 – Blackwell, 2004
- Total ranking models by Genetic Algorithms Variable Subset Selection (GA-VSS) approach for environmental priority settings. (2004). M.Pavan, A.Mauri and R.Todeschini. *Analytical and Bioanalytical Chemistry*
- New constraints for fitness functions in variable subset selection. (2002). R.Todeschini, V.Consonni, A.Mauri and M.Pavan. *Chemometrics and Intelligent Laboratory System*

TALKS

- “On the characterization of proteomic maps by a novel similarity/diversity”, A.Mauri, V.Consonni and R.Todeschini. *MATH/CHEM/COMP 2006. The 21st International Course & Conference on the Interfaces among Mathematics, Chemistry & Computer Sciences*, Dubrovnik, Croatia, June 19-24, 2006

LANGUAGES AND INFORMATIC SKILLS

- Good knowledge of spoken and written English
- Good knowledge of spoken Spanish
- Good knowledge of Windows and Linux operating systems
- Good programming skills in Pascal (Delphi/Kylix, Lazarus/FPC), Visual Basic, MatLab and SQL
- Basic programming skills in C
- Excellent knowledge of Microsoft Office, OpenOffice and of some statistical software: Statistica, SIMCA, MODDE and Scan.

FIELDS OF INTEREST

- *Primary*: Chemometrics, Software development
- *Secondary*: QSAR, Algorithms, Multicriteria decision making.