

Francesco Cauteruccio

<http://www.francescocauteruccio.info>
Via Vignali 85
CAP 87020
Buonvicino (CS), Italy

Phone: (request it by email)
Mobile: (request it by email)
Email: f.cauteruccio@gmail.com

Education

Ph.D. student in **Mathematics and Computer Science** at Department of Mathematics and Computer Science, *University of Calabria*, November 2014 - now.

Master's Degree in **Computer Science** with score **110/110 Summa cum Laude** at *University of Calabria* (Italy), January 2012 - July 2014.

Thesis: *Definition, Implementation and Validation of Multi-Parameterized Edit Distance*, advisor Prof. Giorgio Terracina.

Bachelor's Degree in **Computer Science** with score **104/110** at *University of Calabria* (Italy), 2008-2011.
Thesis: *Automatic pattern induction techniques on semi-structured data*, advisor Prof. Giovambattista Ianni.

Graduation from ITCG Diamante (CS, Italy) with score 95/100, September 2003 - June 2008.

Publications

1. C. Stamile, F.Cauteruccio, G. Terracina, D. Ursino, G. Koccevar, D. Sappey-Marinier.
A Model-Guided String-Based Approach to White Matter Fiber-Bundles Extraction.
Proc. of the International Conference on Brain Informatics and Health (BIH 2015), London, UK, 2015. LNCS. Forthcoming.
2. F. Cauteruccio, C. Stamile, G. Terracina, D. Ursino, D. Sappey-Marinier.
An Automated String-Based Approach to White Matter Fiber-Bundles Clustering.
Proc. of the International Joint Conference on Neural Networks (IJCNN 2015), Killarney, Ireland, 2015, IEEE Computational Intelligence Society. Forthcoming.
3. F. Cauteruccio, G. Fortino, A. Guerrieri and G. Terracina.
Discovery of hidden correlations between heterogeneous wireless sensor data streams.
7th International Conference on Internet and Distributed Computing Systems, IDCS 2014. LNCS 8729, pp. 383-395, 2014.
4. F. Cauteruccio and G. Ianni.
A domain meta-wrapper using seeds for intelligent author list extraction in the domain of scholarly articles.
17th International Conference on Theory and Practice of Digital Libraries, TPDL 2013. LNCS 8092, pp. 313-318, 2013.

Academic Experience

Teaching Assistant for the course **Algorithms and Data Structures** at Department of Mathematics and Computer Science, *University of Calabria*, September 2014 - now.

Academic Tutor for the following classes: **Formal Languages and Compilers, Operating Systems and Networking, Foundations of Computer Science (C++)** and **Object Oriented Programming (C++)** at Department of Mathematics and Computer Science, *University of Calabria*, May 2014 - September 2014.

Employment

Web Developer, Web Designer, UI Designer and UX Engineer in *Center of Neurological Imaging (CNI) Brigham and Women's Hospital - Harvard Medical School* (Greater Boston Area, USA) of SPINE project, August 2012 - January 2013.

Software Analyst, Programmer and UI Designer at *Acs New System SRL di Alessandra Calomino* (Belvedere Marittimo (CS) - Italy) of a project named "Gestione ristorante". The project is a system for in-place mobile restaurant ordering, 2008-2009.

Freelance Web developer and designer, 2004-present.

Fields of interest

Currently, my fields of interest span the areas of Bioinformatics, Information Extraction, Web technologies and Data Mining. I am interested in manipulating strings, unsupervised learning and development of new Web technologies. I am *versatile* to work and research in many areas, plus I am able to work both in team and by myself.

Skills

Computer Science

Programming languages: major skills in C++, Javascript, Python, Java. Experience with Ruby and Perl. Experience with functional programming (Haskell).

Knowledge: major knowledge about Algorithms and Data Structures, Theoretical Computer Science, Computer Networking and Security, Data Mining, Databases, Web technologies and Web Development.

Specific technology: AJAX, JQuery; Hibernate, Spring, JQuery, JDBC, JSP; relational databases like PostgreSQL, MySQL and Oracle, NoSQL databases as MongoDB; fluently \LaTeX ; Django, Bootstrap.

Operating Systems: advanced skills in OS X and Linux operating systems.

Design and Markup

Major skills in HTML (HTML5, HTML4 and XHTML) and CSS (CSS, CSS3).

Major skills in Adobe Photoshop and Adobe Fireworks.

Knowledge of usability and accessibility.

Projects

Scholar H-Index Calculator

Scholar H-Index Calculator is an addon for Google Chrome and Firefox which enhances Google Scholar results pages by showing a number of bibliometric data computed using the data appearing on video as input. Once installed, the Calculator works transparently when querying Google Scholar: as soon as you make a query, result pages are enriched with a number of useful data (e.g. the h-index computed on the basis of displayed data), and new functions are available. It integrates a module which involves relatively new techniques built by myself in the field of Information Extraction.

Information and download available at

<https://www.mat.unical.it/ianni/wiki/ScholarHIndexCalculator>.

SPINE

SPINE (Structured Planning and Implementation of Neurological Explorations) is a virtual laboratory designed to accelerate scientific discovery in neuroimaging. It is a collaboration with the *Center of Neurological Imaging (CNI)* at *Brigham and Women's Hospital - Harvard Medical School*.

Personal

Born on March 20, 1989 in Belvedere Marittimo (CS), Italy.
Writer and musician (alto saxophone, since 2002).