Yann Esposito

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Professional Background

$2010 \rightarrow$	Co-Founder of GridPocket,
$2007 \rightarrow$	AirFrance,
$10/2006 \rightarrow 3/2007$	Post Ph.D., Hubert Curien Laboratory,
$10/2004 \rightarrow 9/2006$	ATER (College Degree Teach & Research),
$10/2001 \rightarrow 9/2004$	University Monitor (College Degree Teach & Research),
$1995 \to 2000$	Miscellaneous summer jobs

Education

2004	CS Ph.D. in Machine Learning at Université de Provence
2001	D.E.A. (Equivalent to Master in Computer science)
2000	Maîtrise in Computer Science
1999	Licence in Computer Science
1998	DEUG MIAS (Math)
1995	BAC S (Math)

Research Activies: Publications

International Journal	[Fundamenta Informaticæ, 2008]
	[Pattern Recognition, 2004]

Internation Conferences [ECML 2008] [ICGI 2006] [COLT 2006]

[COLT 2004] [ICALP 2003] [ICGI 2002]

National Journal [JEDAI 2002]

National Conferences [CAp'06] [CAp'04] [CAp'03]

Presentation

I am French with a Post Ph.D in Machine Learning¹. Furthermore I love web programming and design.

- During my Ph.D. I made a C++ program (github² and resume³). I coded
 most of standard HMM learning algorithms. I developed an algorithm
 which I invented during my Ph.D. which use some operational optimization algorithm. During this period I published articles in international
 conferences and I taught Computer Science to college students.
- At the Hubert Curien Laboratory I made my post Ph.D. I developed a
 scientific application in Java/applet/JWS that should be used by biologists. The code has been updated a bit since my 6 month post Ph.D⁴.
- I currently work in the web industry for Airfrance. My work environment is quite heterogeneous. From shell scripting to manage huge amount of data, web design and production environment. I mostly worked for the B2B website.
- I worked for GridPocket (I am a co-founder). This is a French startup specialized in Electric Grid. I created a private⁵ web application. One of the goal reached was to follow you electricity consumption in real time. It needed many different parts, from creating a Linux box to receive the signal to writing the server which handled the requests and serve the REST API. And also write a full javascript client that displayed nicely the informations.
- I've also written an iOS application to manage passwords⁶.
- I am the author of some quite popular blog posts⁷.

For an almost exhaustive list of my projects, you could check my github account: github.com/yogsototh

¹To be more precise in Grammatical Inference

²https://github.com/yogsototh/DEES

 $^{^3}$ http://yann.esposito.free.fr/dees.php?lang=en

 $^{^4} http://labh-curien.univ-st-etienne.fr/SEDiL/faq.php?lang=en (I like to believe I became a better designer)$

⁵Sorry the code is private I can't show it :(.

⁶http://ypassword.espozito.com

⁷http://yannesposito.com/Scratch/en/blog/

Things done

- YPassword iPhone application
- Gridpocket web services (from conception to realization, works in correlation with a mobile app)
- DEES: a 10.000 line C++ command line program. This program implement most HMM standard algorithms \mathcal{E} inference algorithms.
- SeDiL: a Java application using Swing UI. The goal is to provide biologist an easy way to use an algorithm that generate Similarity Matrices for strings but also for Tree structures. Most graphics was done by me, including the drawing of trees. I didn't used a library for that purpose.
- For YPassword; a Dashboard Widget, a web interface, a command line tool.
- Some websites: yannesposito.com, ypassword.espozito.com
- Written a thesis in Machine Learning and published in major international conferences: [ICALP 2003], [COLT 2004] & [COLT 2006].
- A full javascript web application which display Electric consumption in real time.
- krambook (the engine I use to create this document. I exported it in HTML, PDF (using LATEX) and SVG.
- some Mac OS X screensaver, a MetaPost plugin to draw Automata, an RFC-like document to help my student to make a TOR like network, etc...
- a bunch of other projects see http://github.com/yogsototh

Technical Competences

Mac: Objective-C Cocoa (Mac & iOS), Dahsboard widget, Quartz Composer

Languages: Haskell, scheme, C, camL

Data Mining Tools: weka, Entreprise Miner (SAS), SVMlight

Web frontend: HTML, CSS, javascript (jQuery, coffeescript)

Web framework: Yesod (Haskell web framework), Cappuccino, rack

Unix: Shell scripts (zsh, bash), awk, LATEX, ConTeXt, metapost

IDE: XCode, Unix environment (vim)

Version Control Tools: git, Bazaar (DCVS), subversion (svn), CVS

Programming environments: Mac OS X, Unix/Linux (Solaris, Ubuntu, Debian), Windows XP

UI: Cocoa, Java Swing

Jobs

ightharpoonup Co-Founder & freelance for GridPocket 2010 ightharpoonup

Sophia Antipolis, France

Product Two API server (one for client, another for administration)

A private client side web application

An iPhone Application

Some Linux boxes to send data to the servers

A Linux driver

Role Full technical responsibilities

Technical Keywords: Ruby, REST, JSON, HTML, CSS, Javascript, AJAX, jQuery, Objective-C, ASIHTTPRequest, CorePlot, CoreData, C

 \triangleright AirFrance 2007 \rightarrow

Consultant

Role In charge of the Airfrance CMS for their website.

Technical Keywords TeamSite, Perl, XML, XHTML, CSS, javascript, JSP, Unix (Solaris/Linux), Bazaar

Environnement Windows (Cygwin), Sun Solaris, Linux

ightharpoonup Post Ph.D $10/2006 \rightarrow 3/2007$

Université Jean Monet, Laboratoire Hubert Curien, Saint-Etienne

Product SeDiL

Role Developer

Details

Java application: 11 000 lines with javadoc Main functionalities

- learn edit matrices
- compute edit distances between trees or strings
- visualize trees or sequences (JAVA 2D)
- classification using K means
- Generate random tree couple from an edit distance matrice

Web: http://labh-curien.univ-st-etienne.fr/SEDiL/

Research

Similarity measure between strings or XML trees

Contact Marc Sebban

Technical Keywords UML, Java 1.5, Swing, Java 2D, Java Web Start, Applet, subversion, XML, XHTML, PHP

Environnement Mac OS X, Linux (Debian), Windows XP

ightharpoonup ATER 10/2004 o 9/2006

Research & Teacher, Université de Provence, Marseille teach 1/2, research 1/6, C++ development 1/3 DEES; a C++ software

7500 lines of C++ code, 10.000 with comments Main functionalities:

- Mulitiplicity Automata, HMM & PDA Inference,
- Baum Welch & Viterbi Algorithms,
- GraphViz export,
- String Generation from many Models,

Languages C++

API STL

Environment Linux (Debian) & Windows XP

\triangleright Moniteur des Universités $10/2001 \rightarrow 9/2004$

Université de Provence, Marseille teach 1/3, research 1/3, C++ Development 1/3 Creation of DEES (see preceding entry).

Diploma

2004	Ph.D. degree in Machine Learning
2001	D.E.A. in Computer Science (equivalent to master)
2000	Maîtrise d'Informatique
1999	Licence in Computer Science
1998	DEUG MIAS (math)
1995	BAC S (math)

Scientific Publications

International

Journals [Fundamenta Inforamticæ vol.86 2008] [Pattern Recogni-

tion, 2004]

Conferences [ECML 2008] [COLT 2006] [ICGI 2006] [COLT 2004]

[ICALP 2003] [ICGI 2002]

Workshop [TAGI05]

National (French)

Journals [JEDAI, 2003]

Conferences [CAP 2006] [CAP 2004] [CAP 2003]

Thesis [Université de Provence 2004]

Projects

Most of my latest programming activities are publicly available at github.com/yogsototh

ightharpoonup YPassword 2008 ightharpoonup

Mainly an iOS application:

• YPassword, http://ypassword.espozito.com

I've done fully the website from scratch. Also there are some javascript implementation of YPassword tehcnic:

- a Mac OS X dashboard widget,
- a Cappuccino Web application,
- a jQuery Web application,
- a command line tool,
- an Applescript helper

ightharpoonup Rubyzome 2009 ightarrow

Ruby API oriented framework. Done with Luc Juggery. This framework is REST oriented and output can be either JSON (preferred), but also XML or HTML.

\triangleright Anonymous Network Project $02/2006 \rightarrow 06/2006$

Made a protocol similar to TOR for student.

> Other projects

• Web Application used for private team usage at AirFrance $2008 \rightarrow$ This application is just done *for teh lulz*. Not related to the Airfrance work. But still pleasant.

Javascript(Prototype.js, Scriptaculous), CSS, PHP/MySQL, Google Talk

- metapost package to draw Automata 2003 \rightarrow 2004
- Mac OS X Screensavers (YClock & YAquaBubbles) 2003 \rightarrow 2004 Objective-C, Quartz Composer, Cocoa

You could find even more information by looking at:

- My personnal website: http://yannesposito.com
- My github account: http://github.com/yogsototh