Yann Esposito

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Professional experience

2009 →	*Co-Founder & Freelance*, GridPocket, Sophia Antipolis.
2007 →	*Consultant*, Air France (Astek), Sophia Antipolis.
2006-2007	*Post Doctorant*, Laboratoire Hubert Curien, Saint-Etienne.
2004-2005	ATER *(enseignement et recherche)*, Université de Provence, Marseille.
2001-2004	*Moniteur (enseignant & chercheur)*, Université de Provence, Marseille.
1999-2000	*Vacataire*, Université Aix-Marseille III, Marseille.
→ 1999	*Misc. summer jobs*, (Eurocopter, Naphtachimie, LCL...) near Marseille.

Education

2004	*Ph.D. in Computer Science*, Université de Provence, Marseille.
2001	DEA *in Computer Science* , Université de la Méditerranée, Marseille.
2000	*Maîtrise d'Informatique (mention bien)*, Université de Provence, Marseille.
1999	*Licence d'Informatique (mention bien)*, Université de Provence, Marseille.
1998	DEUG MIAS *option mathématiques*, Université de Provence, Marseille.
1995	BAC S *option mathématiques*, Lycée P. Langevin, Martigues.

Softwares

GridPocket architecture

Ruby API Server,	Ruby, Rack, JSON,REST
iPhone Application,	Objective-C,Cocoa
Javascript Oriented Web Client,	jQuery, MVC oriented javascript

SEDiL (Stochastic Edit Distance Learning), Similarity matrices inference.

Public: biologists

Website : http://yann.esposito.free.fr/sedil.php

DEES, Probabilistic Automata Inference.

> Public: computer scientists
> Website : http://yann.esposito.free.fr/dees.php

Projects

UNIVERSITY

2006	Conception of an anonymous network protocol
2003-2004	ACI "Masses de Données" Genoto3d
	Machine Learning Applicated to terciary structure of proteins.
2003	Managed a Computer Science conference web site (CAp'03).

SHARED ON THE INTERNET

2007-2009	*ϒPassword*, password management widget
2007	*ϒClock*, Mac OS X Screensaver
2003-2004	metapost package to draw probabilistic automata
2003-2004	*ϒAquaBubbles*, Mac OS X screensaver

Competences

Object Langages	C++, Java, Python, Perl, Objective-C
API	C++(STL), Java (Swing/Java 2D), Python (PySQLite, wxPython, crypto, socket), Objective-C (Cocoa, Core Data, Quartz Composer)
Other	C, camL
Unix	bash, zsh, awk, LaTeX, XᴱLaTeX, ConTeXt, Metapost
Methods	UML, Merise
IDE	XCode, Environnement Unix
Data Minning	Entreprise Miner (SAS), weka, svm$_{light}$
Norms	HTML, XHTML, CSS, SVG
Version Control	GIT, BZR, subversion, CVS
Environments	Windows, Unix/Linux (Solaris, Ubuntu, Debian), Mac OS X
IHM	Java Swing, wxPython, Cocoa
Protocols	Ethernet, TCP/IP, UDP, FTP, DNS, DHCP
Tools	ifconfig, tcpdump, wireshark (ehtereal),lsof...
Security	AES, DES, 3DES,Codes de Hamming, PGP, GPG, réseaux anonymes...
Database	MySQL, PostgreSQL, SQLite

Publications

Thesis

2004   *Contribution à l'inférence d'automates probabilistes*,
Y. Esposito
Université de Provence, under the direction of F. Denis.

Internationnal Journal

2008   *On Rational Stochastic Languages*,
F. Denis, Y. Esposito,
Fundamenta Informaticæ, vol. 86, (1-2), p. 41-77, 2008.

2005   *Links between Probabilistic Automata and Hidden Markov Models: probability distributions*,
P. Dupont, F. Denis and Y. Esposito,
Pattern Recognition, Special Issue on Grammatical Inference Techniques & Applications,
Vol 38/9, pp 1349-1371, 2005.

Internationnal conferences

2008   *SEDiL: Software for Edit Distance Learning*,
Boyer L, Esposito Y , Habrard A , Oncina J , Sebban M
ECML 2008, (accepted paper) Proceedings of the 19th European Conference on Machine
Learning.

2006   *Using Pseudo-Stochastic Rational Languages in Probabilistic Grammatical Inference*,
A. Habrard, Francois Denis, and Y. Esposito
ICGI 2006, LNCS 4291, 112-124.

2006   *Learning Rational stochastic languages*,
F. Denis, Y. Esposito, A. Habrard
COLT 2006, 19th Annual Conference on Learning Theory, LNAI 4005, 274-288, 2006.

2004   *Learning classes of Probabilistic Automata*,
F. Denis, Y. Esposito
COLT 2004, 17th Annual Conference on Learning Theory, LNAI 3120, 124-139, 2004.

2003   *Residual languages and probabilistic automata*,
F. Denis, Y. Esposito
ICALP, p. 452-463, LNCS 2719.

2002   *Learning probabilistic residual finite state automata*,
Y. Esposito, Aurélien Lemay, F. Denis, Pierre Dupont
ICGI 2002, 6th International Colloquium on Grammatical Inference, LNAI 2484, 77-91,
2002.

National journal

2007   *Identification à la limite d'automates probabilistes résiduels avec probabilité un*,
F. Denis, Y. Esposito
JEDAI, Vol. 6, Number 44, http://jedai.afia-france.org/detail.php?PaperID=44.

National conferences

2004   *Identification in the limit of Probabilistic Non Deterministic Automata and Undecidable problem for Multiplicity Automata*,
F. Denis, Y. Esposito
CAP'04, Presses Universitaires de Grenoble, 81-96, 2004.

2003   *Identification à la limite d'automates probabilistes avec probabilité de 1*,
F. Denis, Y. Esposito
CAP'03, Presses Universitaires de Grenoble, 249-264, 2003.

online articles

2006   *Rational stochastic languages*,
F. Denis, Y. Esposito,
Technical Report, http://fr.arxiv.org/abs/cs.LG/0602093.

Workshop

2005   *Rational Stochastic Languages*,
F. Denis, Y. Esposito,
TAGI 2005, Theoretical Aspect of Grammar Induction.

Teaching

Total	*370 hours*
Discipline	*Data Minning*, *Machine Learning*,
	Professional softwares (project management),
	operationa research, *Algorithmic*,
	C Language, *C++*,
	System, *Network*,
	Computer Science Initiation.
Level	BAC+1 → BAC+5
Public	DEUG (math., physique, bio), Licence, Licence Pro, Master, Master pro

Look at http://www.lif.univ-mrs.fr/-esposito for more details