LINDA DIB

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Education

Since January 2008	**University**	Université de Pierre et Marie Curie Paris 6
	Degree	Studying for PhD degree - *Expected 1st December 2011*
	Laboratory	UMR 7238 CNRS-UPMC, Paris-France
September 2006		
	University	Université de Pierre et Marie Curie Paris 6
	Degree	Master in Computer Sciences with honor
	Major	Programming and Algorithms
	MPRI:	*Master Parisien de Recherche en Informatique*
	MPRI courses	Algorithm Analysis, Combinational Algorithms
June 2004		
	University	American University of Beirut, Lebanon
	Degree	Bachelor of Computer Sciences BS
	Major	Bachelor of Computer sciences
June 2004		
	Minor	Business Administration
	Business courses	Marketing, Management, Finance and Accounting
June 2001	**High School**	Notre Dame de Jamhour Hazmieh, Lebanon
	Baccalaureates	French and Lebanese baccalaureates in 2001

International Journals

1. A. Carbone, L. Dib "Co-evolution and information signals in biological sequences". Theoretical Computer Science (TCS-A) special issue, *accepted,* 2010.
2. L. Dib, A. Carbone "Co-evolution of fragments in biological sequences", *to be submitted in few days.*
3. L. Dib, A. Carbone "CLAG: a non supervised non hierarchical clustering algorithm", *to be submitted in few days.*

International conference proceedings

1. A. Carbone, L. Dib, "Co-evolution and information signals in biological sequences", in LNCS 5532, J. Chen and S.B. Cooper (Eds.) Proceedings of the 6th Annual Conference on Theory and Applications of Models of Computation (TAMC2009), Springer-Verlag, Berlin, 6--17,2009. Conference led in Changsha, China, may 2009. (Invited paper)

Short talk

1. A thirty minute talk on "*Co-evolution in non-divergent or small sets of protein sequences*" during the working group: Computational Biology, March the 29th, ENS, Paris - France.
2. A thirty minute talk on "*Combinatorial measure of co-evolution of blocks and its evolutionary pressure*" during the meeting of « Combinatorial and Algorithmic Aspects of Sequence Processing », 25th of Februrary 2011, Dagstul – Germany.

3. A fifteen minute talk on "*Co-evolution of blocks of residues in proteins and their specialization along phylogenetic trees*" during Alphy conference, 2nd of February 2010 Marseille- France.
4. A fifteen minute talk on "*Réseaux de résidus co-évolués, fonction et structure des protéines*" during the first laboratory meeting of « Génomique des Microorganismes », 2nd of December 2008, Paris – France.

Posters

1. L.Dib, A.Carbone, Co-evolution of blocks of residues and sectors in protein structures, JOBIM 2009, June 9 – 10, Nantes, France.
2. L.Dib, A.Carbone, Co-evolution of blocks of residues and sectors in protein structures, Protein Dynamics, Allostery and Function, Keystone Symposia, Ivet Bahar and Lila M. Gierasch (Organizers), June 5 - 10, 2009, Keystone Resort, Keystone, Colorado.
3. L.Dib, A.Carbone, Co-evolution of blocks of residues and sectors in protein structures, ISMB-ECCB 2009, June 27 - July 2, Stockholm, Sweden.

Participation to meetings

27-29 May 2008   THINK TANK-Statistical Semantics of Genomes: from sequence to function, Evry – France

30 June-2 July 2008   JOBIM 2008, Lille - France

5-15 October 2008   Satellite RECOMB "Comparative Genomics", Paris - France

Work experience

Jan 2008   **PhD Student in the bio-Informatics lab in Paris with Professor Alessandra Carbone**
We propose a method to detect co-evolved blocks of residues, numerically rank them depending on their level of co-evolution, and clusterize them to obtain networks of co-evolved blocks (successive positions).

Nov 06 Dec 08

Team manager for a year in the consulting firm Capgemini for Telecoms and Media clients.
- Supervision of software engineering cycle
- Meetings with clients for the elaboration of their functional needs
- Management of a team of 10 people: Resource management, Planning elaboration, Reporting

Developer, 'Concepteur Réalisateur Intégrateur' for 4 months consulting firm Capgemini
Study of new evolutions for current projects
Establishing the equivalence between technical possibilities and functional needs
Developments using Java–J2EE et pl/sql.
Integration database and web applications

April 2006   Internship in the bio-Informatics lab in Paris with Professor Alessandra Carbone
Research of motifs at large scale by comparison of sequences of Plasmodium falciparum.
The aim of this study is to create a probabilistic tool inspired for already existing ones, that takes into account the A+T variation of the genomes and that searches for structured motifs in intergenic regions in Plasmodium: 3'UTR et 5'UTR.

Teaching Activities

September 2008 - June 2011

Algorithms for aligned sequences	Master Level
Phylogeny in Bioinformatics	Master Level
Genomic comparison in bioinformatics	Master Level
Networks in Bioinformatics	Master Level
Recursive programming in Scheme	Bachelor level
Discrete Structure	Bachelor level
Advanced C language	Bachelor level

Social skills

2001-2004   **Member of a Social and French group called FONDACIO**
Preparing camps and doing some benevolent work
Chef of animation, and member of organization

Programming

Bioinformatic languages	Perl, python, bash, R
Functional languages	λ-calculus, Coq, Caml, Scheme
Synchronized Languages	Estrerel, Lustre
Object and other languages	C, C++, C# , Java, Visual Basic, Math lab
Computer graphics:	3DMax, OpenGl, vrml.
Web design:	ASP.net, C#
	Dreamweaver
Database:	Oracle and Access.
Operating systems	Unix, Windows.
Java plateform	J2EE

Personnel

Languages:	English : Fluent
	French : Fluent
	Arabic : Very good