

# CURRICULUM VITAE

## TOM MILLEDGE

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### ■ Education

DEGREE	DISCIPLINE	INSTITUTION	YEAR
Ph.D. candidate	Computer Science/ Bioinformatics	Florida International University, Miami, FL.	2002 - Present
M.S.	Computer Science	Florida International University, Miami, FL.	2001

### ■ Relevant Experience

#### **PhD Student, Florida International University, January 2002 – Present**

Research into and development of novel methods of pattern discovery in protein sequence and structure.

#### **Masters Student, Florida International University, September 2000 – December 2001**

Developed workstation clusters applications using PVM and MPI on dedicated clusters (Beowulf), peer clusters (Mosix), and multi-level clusters (Condor). Researched and deployed cluster job scheduling and dynamic load balancing algorithms on a multi-level test cluster (grid) consisting of three heterogeneous sub-clusters. Designed and deployed a production cluster in a molecular biology lab as a dedicated Beowulf cluster composed of one master and seven compute nodes connected to the campus network via a 4-port 100 Mbs Ethernet gateway using the Condor job scheduler running Maximum Likelihood and Bayesian Analysis applications. Designed and deployed a production cluster in a computational biology lab as a Beowulf cluster composed of one master and twelve compute nodes running a Maximum Likelihood application. Designed a web portal user interface to control cluster applications and remotely manage cluster job scheduling.

#### **Network Consultant, John Alden Financial Corporation, January 1995 to July 1996**

Responsible for support of campus-wide LAN operations. Used Network General Sniffers to troubleshoot and correct problems on token ring backbone. Researched and coordinated WAN support for remote location and dial-up remote access using Shiva Net Manager. Developed enterprise network support procedures for the Viewstar document imaging system. Developed LAN standards and audited for compliance. Researched and coordinated enterprise frame-relay Internet access.

### ■ Publications

G. Zheng, T. Milledge, E. O. George, G. Narasimhan, **Pooling evidence to identify cell cycle-regulated genes.** Submitted to RECOMB 2006.

E. O. George, G. Zheng, G. Narasimhan, T. Milledge. **On Some Meta-Analytic Procedures for Analyzing Microarray Data from Several Databases,** *Journal of Statistical Planning and Inference*, submitted.

T. Milledge, S. Khuri, X. Wei, C. Yang, G. Zheng, G. Narasimhan, **Sequence Structure Patterns: Discovery and Applications,** *Proceedings of the 6th Atlantic Symposium on Computational Biology and Genome Informatics (CBG)*, p1282-1285, July 2005.

T. Milledge, G. Zheng, G. Narasimhan, **Applications of Data Mining in Epitope Prediction,** *Proceedings of ICBA'04*, p390-401, December 2004.

D. Cazalis, T. Milledge, G. Narasimhan **Probe Selection Algorithms,** *Proceedings of the SCI Conference*, Orlando, July 2004.