

Adam Bazinet

Center for Bioinformatics and Computational Biology
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PROFESSIONAL EXPERIENCE

Faculty Research Assistant, Center for Bioinformatics and Computational Biology

University of Maryland, College Park, MD. Sept. 2003–Present.

Lead developer of The Lattice Project, a multipurpose Grid computing system.

Involved in a number of active research projects in the Laboratory of Molecular Evolution.

Course Assistant, Workshop on Molecular Evolution

- Český Krumlov, Czech Republic. 2009.
- Marine Biological Laboratory, Woods Hole, MA. 2003, 2004, 2006-2008.
- Centers for Disease Control and Prevention, Atlanta, GA. 2008.

Responsible for computer lab setup, system administration, and bioinformatics application support.

Co-op, Software and Web Development

Bureau Veritas e-Business, Buffalo, NY. 2001–2003.

Our group was responsible for all company web sites, both internal and external.

GRE Test Preparation Instructor

Academic Preparation Center, Transemantics, Inc. 2005–2006.

PUBLICATIONS

Bazinet, A. L., and M. P. Cummings. The Lattice Project: a Grid research and production environment combining multiple Grid computing models. In Weber, M. H. W. (Ed.)

Distributed & Grid Computing - Science Made Transparent for Everyone.

Principles, Applications and Supporting Communities. Tectum Publishing, Marburg. In press.

Bazinet, A. L., D. S. Myers, J. Fuetsch and M. P. Cummings. 2007. Grid Services Base Library: a high-level, procedural application program interface for writing Globus-based Grid services. *Future Generation Computer Systems* 22:517-522.

Myers, D. S., **Bazinet, A. L.**, and M. P. Cummings. 2008. **Expanding the reach of Grid computing: combining Globus- and BOINC-based systems.** Pages 71-85. In Talbi, E.-G. and A. Zomaya (Eds.) *Grids for Bioinformatics and Computational Biology, Wiley Book Series on Parallel and Distributed Computing.* John Wiley & Sons, New York.

Myers, D. S., and **Bazinet, A. L.** 2004. **Intercepting Arbitrary Functions on Windows, UNIX, and Macintosh OS X Platforms.** Technical Report CS-TR-4585, UMIACS-TR-2004-28, Center for Bioinformatics and Computational Biology, Institute for Advanced Computer Studies, University of Maryland.

Tue Dao, H., **Bazinet, A.**, Berthier, R., and Shneiderman, B. 2008. **NASDAQ Velocity and Forces: An Interactive Visualization of Activity and Change.** *Journal of Universal Computer Science* 14:1391-1410.

EDUCATION

M.S., Computer Science Graduate Program. Currently Enrolled.

Advanced Special Student, Graduate Program. Sept. 2005–May 2007.

University of Maryland, College Park, College Park, MD, Sept. 2005–Present.

Overall GPA: 3.7/4.0

GRE scores: Analytical Writing: 5.5/6.0 Verbal: 750/800 Quantitative: 770/800

Computer Science coursework:

- Applications of GPU and Cloud Computing to Databases, Computer Graphics, Data Mining, and GIS
- Algorithms for Biosequence Analysis
- High Performance Computing
- Information Visualization
- Cognitive Science and Artificial Intelligence
- Computational Gene Finding and Genome Assembly

B.S., Honors Computer Science Program, May 2003

Rochester Institute of Technology, Rochester, NY, Sept. 2000–May 2003

Overall GPA: 3.6/4.0

Computer Science coursework:

- Computer Science I, II, III (Java)
- Computer Science IV (C++)
- Software Engineering (Java)
- Computer Graphics I (C++, OpenGL)
- Operating Systems I
- Digital Design (Circuit Simulator)
- Computer Organization (VAX)
- Data Communications & Networks (Java)
- Ad hoc Networking
- Computer Science Theory
- Artificial Intelligence (Lisp)
- Abstractions & Practicalities (Lisp)
- Genetic Algorithms
- Bioinformatics Independent Study

HONORS

RIT Honors and Leadership Program, 2000–2003

Recipient of the RIT Presidential Scholarship, 2000–2003

Recipient of the Golden Key Sophomore Achievement Award, 2000–2001

COMPUTER SKILLS

Operating Systems: Mac OS X, MS Windows, Red Hat Enterprise Linux, other Unix-based OSes

Software: Adobe Flex, Acrobat, Apache Tomcat, BioPerl, BOINC, Condor, CVS/SVN, Cygwin, Eclipse, Emacs, Globus Toolkit, MySQL, NCBI resources, Office, PBS/Torque-Maui, Photoshop, PostgreSQL, R, Vim, Visual Studio .NET, and numerous bioinformatics applications

Languages: ActionScript, C, C++, HTML/XML/CSS, Java, JavaScript, JSP, LaTeX, Lisp, MATLAB, OpenGL, Perl, PHP, Python, R, RDF/OWL, SQL, VB

REFERENCES

Available upon request.