sagerj@acm.org http://www.cs.unm.edu/~sagerj

Jennifer A. Sager

Goal

To obtain an internship in the computer science or financial industry beginning in the middle of May 2006.

Experience

September 2003 – present

Research Assistant
Department of Computer Science, University of New Mexico, Albuquerque, NM
Supervisor: Prof. Darko Stefanovic
Researching the artificial design of DNA strands for intelligent computation using the DNA based logic gates developed by Prof. Darko Stefanovic and Prof. Milan Stojanovic. http://www.cs.unm.edu/~darko/biomolcomp.html

May 16, 2005 – August 19, 2005

Engineering Intern
Google, Mountain View, CA
Supervisor: Glenn Trewitt
Programmed a compiler for an embedded language using ANTLR (a tool to which provides a framework to construct a parser and lexer) and C++.

October 2002 – June 2003

C++ programmer
Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania, Philadelphia, PA
Supervisor: Prof. John H. Holmes
Programmed a data mining program with an extensive graphical user interface for the EpiXCS modifications of the learning classifier algorithm, XCS, by Stewart W. Wilson and Martin V. Butz.

June 2002 – August 2002

LISP and Open GL programmer
Radiation/Oncology Center, University of Washington, Seattle, WA
Supervisor: Prof. Ira Kalet
Programmed an extension to PRISM (a program that enables the user to plan and visualize radiation beams through a patient) using CLX/X-windows, and LISP that converts parallel contours into a triangular mesh to show 3D views of patient organs, tumors, and target areas. http://www.radonc.washington.edu/medinfo/prism/

July 2000 – August 2000

Teacher
Summerbridge, Hong Kong, China
Supervisor:
Taught a basic level economics course to ESL middle school students in Hong Kong. http://www.summerbridge.org.hk/

Education

August 2003 – present

University of New Mexico, Albuquerque, NM
PhD student in Computer Science
Course Work: Advanced Data Structures, Mathematical Foundations of Computer Science, Theory of Computation, Programming Paradigms, Randomized Algorithms, Programming Languages and Systems
General GRE: (December 27, 2002) Quantitative 790, Verbal 620

Education (continued)

June 7, 2004 – July 2, 2004

Complex Systems Summer School, Santa Fe Institute, Santa Fe, NM

Course Work: Complex behavior in mathematical, physical, biological, and social systems

September 1998 – December 2002

The Wharton School, University of Pennsylvania, Philadelphia, PA
B. S. in Economics with a concentration in Statistics and a Minor in Computer Science
Course Work: Statistics, Probability, Microeconomics, Macroeconomics, Finance, Marketing, Legal Studies
Wharton Undergraduate Finance Club: Technology Lead (September 2000 to May 2002)

Selected Publications

Jennifer A. Sager and Darko Stefanovic. Designing nucleotide sequences for computation: A survey of constraints. In A. Carbone, M. Daley, L. Kari, I. McQuillan, and N. Pierce, editors, *Preliminary Proceedings of the 11th International Workshop on DNA-Based Computers, DNA 2005 (University of Western Ontario: London, Ontario, Canada)*, June 2005.

John H. Holmes and Jennifer A. Sager. Rule discovery in epidemiologic surveillance data using EpiXCS: An evolutionary computation approach. In Silvia Miksch, Jim Hunter, and Elpida Keravnou, editors, *Proceedings of Artificial Intelligence in Medicine: 10th Conference on Artificial Intelligence in Medicine, (AIME 2005)*, volume 3581 of *Lecture Notes in Computer Science*. Springer, July 2005. http://dx.doi.org/10.1007/11527770_60.

John H. Holmes, Jennifer A. Sager, and Warren B. Bilker. A comparison of three methods for covering missing data in XCS. In *Seventh International Workshop on Learning Classifier Systems (IWLCS-2004) during the Genetic and Evolutionary Computation Conference (GECCO 2004)*, June 2004. http://www.psychologie.uni-wuerzburg.de/IWLCS/.

Skills

Computer Skills: C++, C, Java, ML, LaTeX, BibTeX, ANTLR, Microsoft Excel, Microsoft PowerPoint.

Available Software

ResumeTeX: Coded a system using BibTeX bibliography files and LaTeX style files to facilitate the creation of a resume in postscript or pdf. Avaliable at http://cs.unm.edu/~sagerj/software.htm

EpiXCS: Coded a data mining program with an extensive graphical user interface for the EpiXCS modifications of the learning classifier algorithm, XCS, by Stewart W. Wilson and Martin V. Butz. Avaliable at http://cs.unm.edu/~sagerj/software.htm

References

Available on request.