

Peter D. Groves

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Experience

Independent Investor

Oct. 2006 - Present: Chicago, Illinois

Currently developing an algorithmic trading application written in Ocaml using genetic algorithm and statistical modeling techniques to find market price patterns on a time scale of less than one hour.

Technical Sales Support- RiverGlass, Inc.

Oct. 2004 - Sept. 2006: Chicago, Illinois

Acted as technical liason to sales and marketing. Brought technical expertise to solution consultations, sales calls, investor briefings, and other customer facing situations. Also responsible for defining marketing messaging by authoring abstracts and white papers, particularly in new markets and early stage product roll-outs.

Analyst/Developer - RiverGlass, Inc.

Jan. 2004 - Oct. 2004: Chicago, Illinois

First full-time employee of RiverGlass, Inc., a company formed to commercialize data mining technology developed at the National Center for Supercomputing Applications. Designed and implemented statistical and machine learning oriented applications in Java. Primary project involved analysis of groundwater monitoring schemes at chemical and oil spill sites to identify redundancies. Designed and developed software that justified the removal of redundant wells resulting in up to a 10% yearly cost savings for the potentially 50+ years of monitoring required by the EPA at spill sites. (See Publications)

Graduate Research Assistant - National Center for Supercomputing Applications

May 2000 - Dec. 2003: Champaign, Illinois

As part of the Masters in Computer Science program at University of Illinois, performed research in the implementation of neural networks, genetic algorithms, and other automated learning techniques in Java. Thesis was on the subject of feature selection for machine learning in hyperspectral remote sensing (see Publications). This work involved parallel and distributed computing.

Publications

Minsker, B. S., P. Groves, and D. Beckmann Optimizing Long Term Monitoring at a BP Site Using Multi-Objective Optimization, American Society of Civil Engineers (ASCE) Environmental & Water Resources Institute (EWRI) World Water & Environmental Resources Congress 2005 & Related Symposia, Anchorage, AK, 2005.

Bajscy, P., Groves, P. Methodology For Hyperspectral Band Selection. Journal of Photogrammetric Engineering and Remote Sensing. Vol 70, No. 7. pp. 793-802. July 2004.

Groves, P., and Bajscy, P. Methodology For Hyperspectral Band and Classification Model Selection. Proceedings of the IEEE Workshop on Advances in Techniques for Analysis of Remotely Sensed Data. October 27-28, 2003.

Education

Masters of Science in Computer Science

University of Illinois Urbana-Champaign
Graduated December 2003
GPA: 3.61 / 4

Bachelors of Science in Agricultural Engineering, Minor in Computer Science

University of Illinois Urbana-Champaign
Graduated August 2001
GPA: 3.89 / 4