

## **Peter D. Groves**

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### **Experience**

#### **Founder - DesignByRobots**

*October 2006 - Present: Chicago, Illinois*

DesignByRobots commercializes Automated Design technology. The core technological innovation is a data modeling technique that makes it easier to perform machine learning on any data that is mapped into the model. The data model is also well suited to creating domain specific languages, thereby opening up a new path for optimization of much richer designs and decisions by using machine learning directly on DSLs. The first product is focused on developing trading strategies under changing conditions in the financial markets.

#### **Independent Contractor**

*October 2006 - Present: Chicago, Illinois*

Conducted multiple machine learning and software development projects. Main focus is on building prototypes of machine learning systems that combine off the shelf technology with custom code to quickly determine if investment in a production system is warranted.

#### **Research Engineer - National Center for Supercomputing Applications (NCSA)**

*Jan 2008 - May 2009: Champaign, Illinois*

Acted as a core developer and release engineer for project SEASR. SEASR is a development platform and analytics toolkit for Humanities research communities to to develop, share, and deploy analytics driven web applications, primarily involving digitized document collections. Primary responsibility was design and execution of release process, including integration and final QA.

#### **Technical Sales Support - RiverGlass, Inc.**

*Oct. 2004 - Sept. 2006: Chicago, Illinois*

Acted as technical liaison to sales and marketing. Brought technical expertise to sales calls, investor briefings, and other customer facing situations. Also responsible for developing marketing messaging through 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 NCSA. 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)

### **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