
David Vadas

Mobile: +61 417 650 418
Email: dvadas@gmail.com

Work Experience

Susquehanna

Creating statistical models for trading strategies, via machine learning on very large data sets. This involves generating key indicators from market data and significant analysis in a backtesting framework.

Sep 2011 – Present

University of Sydney and Capital Markets CRC

Building systems for analysing newspaper text as part of an industry partnership with Fairfax Digital. Other duties included lecturing and supervising students.

Nov 2010 – Aug 2011

Optiver

Development work on multiple components of a high-frequency trading system. This includes writing software for monitoring speed and success, interpreting market protocols and an auto-trading tool.

Apr 2008 – Nov 2010

National Computer Science School, School of I.T.

Tutoring Python programming to high school students.

Jan 2005 and 2006

Academic Staff, School of I.T.

Tutoring a number of classes, with students from 1st and 2nd Year, through to honours and masters students.

2003 – 2005

Education

The University of Sydney

Doctorate of Philosophy in Science

Noun Phrase Structure for Statistical Parsing

Greater annotation and analysis of noun phrase structure allows for better performance in parsing and other Natural Language Processing systems.

Mar 2005 – Apr 2008

Bachelor of Information Technology (Honours)

First Class Honours in Computer Science – Grade: 88/100 (WAM: 80%)
Majors in Software Development, Principles of Computer Science, and Networks and Systems.

Mar 2001 – Nov 2004

Technical Skills

- Proficient with C++ and C, including use of Boost libraries.
- Expert Python programming, including knowledge of Django, numpy and scipy.
- Experienced database user (Microsoft SQL Server, PostgreSQL, and sqlite).
- Considerable practice at using Linux utilities, e.g. awk, to speed prototyping work.
- Able to be productive with many development tools: Visual Studio, vim, git, Subversion, Perforce.
- Expertise in the theory and practice of high frequency trading, machine learning, networking, and tasks from the computational linguistics field such as tagging and parsing.