

## Liam Schoneveld

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<b>EDUCATION</b>	<b>Master of Science (Artificial Intelligence)</b> 2015-2017 The University of Amsterdam <i>Weighted average mark of 8.5/10 (Cum Laude).</i>
	<b>Bachelor of Commerce (Liberal Studies)</b> 2009-2013 The University of Sydney <i>Majors in Economics and Econometrics. Weighted average mark of 79/100.</i>
	<b>New South Wales (Australia) Higher School Certificate</b> 2003-2008 Fort Street High School <i>University Admission Index of 98.45/100.</i>
<b>PROFESSIONAL EXPERIENCE</b>	Machine Learning Intern, <b>Scyfer (acquired by Qualcomm)</b> Feb-Sep 2017 Interned at Scyfer, a machine learning and artificial intelligence consultancy, spun-off from the University of Amsterdam. My work here formed the thesis component of my masters' degree, which focused on researching and developing semi-supervised (deep) learning methods, with a view to embedding the findings into Scyfer's products. The quality of my work and knowledge shared led to positive feedback from across the team.
	Economics Consultant, <b>PricewaterhouseCoopers</b> 2013-2017 Worked with Pricewaterhouse Coopers' (PwC) Sydney-based Economics & Policy consulting team. Primary focus was on economic and econometric modelling, and associated analysis and reporting. Projects saw me develop multinomial logit models of transport mode choice, interface with PwCs SQL-based small area economic and demographic model to produce regional forecasts of economic indicators, and specify and estimate ARIMAX models of toll road usage. The consistent value I brought to projects at PwC saw me continue to assist the team remotely while I completed my masters' degree in Amsterdam.
	Econometrics Contractor, <b>LEK Consulting</b> 2016-2017 Contracted by consulting firm LEK to deliver demand forecasting models and associated research and data analysis for two toll roads in the Sydney region. Was responsible for most aspects of the project, which involved the development of a bespoke Bayesian ARIMA-style model. Was additionally responsible for planning and scheduling aspects of the project, plus maintaining the client relationship and providing progress updates. The client was pleased with the robust forecasting model and analysis that resulted, which were delivered on time and within LEK's allocated budget.
	Data Entry Clerk / Software Developer, <b>Law in Order Pty Ltd</b> 2010-2013 Worked in a team tagging and labeling documents to produce electronic databases of evidence used by law firms. Additionally spent several months developing and maintaining an Access VBA/SQL-based software tool which enabled better identification of inconsistencies in database outputs. This tool led to improved quality assurance practices, which in turn improved customer satisfaction.

Research Assistant, **Saki Partners Pty Ltd** 2012-2013  
Assisted Dr. Nigel Finch, academic director of the CEMS and Master of Management programs at the University of Sydney, with research and data analysis for future publications.

Research Assistant, **The University of Western Sydney** 2012-2013  
Supported the Family and Community Health Research Group with literature reviews, data entry and analysis, and interview transcriptions, assisting them to complete projects and research.

Technical Assistant, **Switch Automation Pty Ltd** 2009-2010  
Assisted with the development of Switch's automation solutions through documentation and website maintenance, software testing/development, and manufacture and administrative duties, augmenting its ability to grow and meet customer needs.

## OTHER ACHIEVEMENTS

- Ongoing: Maintain a blog with posts on machine learning at [nlml.github.io](http://nlml.github.io)
- Ongoing: Have provided solutions to several questions as user nlml on Stack-Overflow and at [stats.stackexchange.com](http://stats.stackexchange.com)
- 2016: Placed 1st out of about 50 student groups in a Kaggle-style machine learning competition as part of the UvA/VU course *Data Mining Techniques*
- 2015: Placed 17th out of 985 participants in Kaggle's *Facebook Recruiting IV: Human or Robot?* predictive modelling competition
- 2013: Placed 2nd out of 108 students in the *Operations Management* course at the University of Sydney
- 2010: Awarded two separate International Exchange Scholarships by the University of Sydney, based on academic merit
- 2008: Placed 7th of 2730 students in Higher School Certificate course *Software Design and Development*.

## SKILLS AND STRENGTHS

- Broad knowledge in fields relating to machine learning, statistics, computer science and economics, obtained both academically and through practice
- Excellent writing skills; able to simplify and concisely convey ideas to diverse audiences
- Great verbal communication skills; thrive in a team environment
- Expert in Python for all things related to data science, machine learning and deep learning (Tensorflow, Theano, sklearn, pandas, matplotlib, etc.)
- Expert in R, VBA, Matlab, SQL,  $\LaTeX$ , Linux
- Intermediate in Java, C++, SAS, Stata
- Experience with HTML, CSS, JavaScript
- Data and geospatial visualisation abilities in Tableau and Quantum GIS (QGIS)
- Expert in Microsoft Office; have developed large, advanced models in Excel.