

## Liam Schoneveld

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EDUCATION	<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, Sydney <i>University Admission Index of 98.45/100.</i>
PROFESSIONAL EXPERIENCE	Lead Data Scientist, <b>Powder</b> Oct 2019-Present Lead and implement the AI strategy at Powder: <ul style="list-style-type: none"><li>• Research and develop Powder's (patent pending) videogame highlights detection system, which is highly scalable thanks to a unique approach that combines unsupervised learning with 1000s of hours of videogame footage.</li><li>• Active role in recruiting and onboarding new AI talent, communicating needs and results to upper management, and explaining our AI to investors.</li><li>• Lead Powder's research collaboration with Associate Prof. Alice Othmani at Université Paris-Est Créteil (UPEC). Our upcoming paper <i>Leveraging Recent Advances in Deep Learning for Audio-Visual Emotion Recognition</i> presents state-of-the-art results on several emotion detection benchmarks. It is currently in final stages of review for publication in <i>Pattern Recognition Letters</i>.</li></ul>
	Data Scientist (Deep Learning / Computer Vision), <b>Pandascore</b> 2017-2019 <ul style="list-style-type: none"><li>• Developing and deploying computer vision models for real-time events and stats detection in e-sports (professional video games) tournaments.</li><li>• Training and deploying machine learning models using these computer vision-derived data to predict match outcomes in real time.</li><li>• Contributing to growth, product strategy and recruitment efforts.</li></ul>
	Machine Learning Specialist, <b>Scyfer (acquired by Qualcomm)</b> Feb-Sep 2017 Completed my Artificial Intelligence (AI) masters' thesis while interning at Scyfer, an AI consultancy that was acquired by Qualcomm in late 2017. During this period I researched and developed semi-supervised deep learning techniques, focusing on computer vision applications.
	Econometrics Contractor, <b>LEK Consulting</b> 2016-2017 Contracted to develop econometric revenue analysis and forecasting models for several assets belonging to a large (ASX top 50) Australian client of LEK.
	Economics Consultant, <b>PricewaterhouseCoopers</b> 2013-2017 Consulted with clients primarily from the transport industry. Focus was on econometric and economic modelling (e.g. demand forecasting, cost-benefit analyses,

project appraisal, etc.) and associated analysis and reporting.

Software Developer / Data Entry Clerk, **Law in Order Pty Ltd** 2010-2013  
Tagging and labeling documents to produce electronic databases of legal evidence, and later software development and maintenance, after a database assurance tool I proposed to management was given the go-ahead.

## OTHER ACHIEVEMENTS

- Ongoing: Maintain a blog with posts on machine learning at [nlml.github.io](https://nlml.github.io)
- Ongoing: Contribute to open source projects on GitHub - e.g. Pytorch, mlflow
- Ongoing: Answer questions on StackOverflow, see: [stackoverflow.com/u/6167850](https://stackoverflow.com/u/6167850) & [stats.stackexchange.com/users/112095](https://stats.stackexchange.com/users/112095)
- 2018: Presented at Meetup Computer Vision Paris, presentation titled: *Tracking Player Positions on the League of Legends Minimap*
- 2018: Participated in the 2018 Amsterdam Dance Event Hackathon (worked in a team to build a deep learning-based reverse image search application)
- 2018: Participated in the Kaggle TensorFlow Speech Recognition Challenge
- 2017: Graduated *Cum Laude* from the MSc Artificial Intelligence program at the University of Amsterdam
- 2017: Received an 8/10 for my MSc AI thesis: *Semi-Supervised Learning with GANs*, supervised by Prof. Dr. Max Welling and Taco S. Cohen
- 2016: Placed 1st out of 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?* data science 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

### *General skills:*

- Broad knowledge in fields relating to machine learning, statistics, computer science and economics, obtained both academically and professionally
- Excellent writing skills; able to concisely convey ideas to diverse audiences
- Great verbal communication skills; thrive in a team environment.

### *Programming languages/software experience:*

- Python data science / ML stack (numpy, sklearn, pandas, matplotlib, etc.)
- Deep learning libraries (Pytorch, Tensorflow, Keras, Theano)
- MLops, ML pipeline reproducibility, ML model deployment to multiple frameworks (Apple coreml, tflite, tools like dvc, Docker)
- Strong experience with Unix/Linux, databases (namely PostgreSQL), Git, R, VBA, Matlab,  $\text{\LaTeX}$ , Microsoft Office
- Experience with Java, C++, HTML, CSS, JavaScript, Julia.