Liam Schoneveld

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EDUCATION	Master of Science (Artificial Intelligence) Cum Laude The University of Amsterdam	2015-2017	
	IRP: Semi-Supervised Learning with Generative Adversarial N	etworks (2017)	
	Bachelor of Commerce (Liberal Studies) The University of Sydney Majors in Economics and Econometrics	2009-2013	
PROFESSIONAL EXPERIENCE	Principal AI Researcher, Powder (\$14.5m 2021 Series A)	Oct 2019-Present	
	Lead Powder's AI team; help define and implement the AI stra		
	• Designed and developed model training and deployment pipelines for three key product features: detecting which videogame is being played, detecting highlights or exciting moments in the gameplay footage, and verifying the absence of adult content. These models run in real-time, and on-device.		
	• Co-manage the day-to-day workflow of Powder's seven-per effective intra- and cross-team communication.	son AI team; ensure	
	• Research collaboration with Dr. Alice Othmani at Université Paris-Est Créteil (UPEC); first author on two published papers (see Publications), both achieving state-of-the-art results on popular emotion recognition benchmark datasets.		
	• Research into self-supervised learning for highlights detection led to an order of magnitude reduction in the amount of labels required for training models.		
	• Technical topics include: deep learning for object detection, classification, video highlighting, facial expression recognition, MLops, deployment to edge devices, model quantisation and pruning, self-supervised learning, etc.		
	Data Scientist (Deep Learning), Pandascore (\$6m 2020 Series	s A) 2017-2019	
	 Developing and deploying computer vision models for restats detection in e-sports tournaments. 	,	
	• Training and deploying machine learning models using the derived data to predict match outcomes in real time.	ese computer vision-	
	• Key projects:		
	 Detecting hero positions on the League of Legends m (plus auto-retraining and deployment when new here 		
	 Probabilistic inference to calculate and optimize betti over all possible outcomes in an ongoing Overwatch 	0	
	 Using GANs to synthetically generate training data o acters in Overwatch before any 'real' training data v 	- •	
	• Contributing to growth, product strategy and recruitmen	t efforts.	
	Machine Learning Specialist, Scyfer (acquired by Qualcom Completed my Artificial Intelligence (AI) masters' thesis unde Taco Cohen and Max Welling while interning at Scyfer, an quired by Qualcomm in late 2017. Focus was on researching as supervised deep learning techniques, with an emphasis on comp	r the supervision of AI consultancy ac- nd developing semi-	

	Econometrics Contractor, LEK Consulting	2016-2017
	Contracted to develop econometric revenue analysis and forecasting eral assets belonging to a large (ASX top 50) Australian client of L	
	Economics Consultant, PricewaterhouseCoopers Australia	2013-2016
	Consulted with clients primarily from the transport industry. Focus metric and economic modelling (e.g. demand forecasting, cost-be project appraisal, etc.) and associated analysis and reporting.	
	Software Developer, Law in Order Pty Ltd	2010-2013
	Produced electronic databases of legal evidence for Law in Order's clie developed and maintained a quality assurance software tool that of used at Law in Order many years after my departure.	
PUBLICATIONS	Schoneveld, L. & Othmani A. (2021). Towards a General Deep Fe for Facial Expression Recognition. 28th IEEE International Confer Processing (ICIP), 2021, pp. 2339-2342.	
	Schoneveld, L., Othmani, A., & Abdelkawy, H. (2021). Leveraging H in Deep Learning for Audio-Visual Emotion Recognition. Pattern R ters, 146, pp. 1-7.	
PROGRAMMIN	G • Python data science / ML stack (numpy, sklearn, pandas, ma	tplotlib, etc.)
LANGUAGES	• Deep learning libraries (Pytorch, Tensorflow, Keras, Theano)	
	• MLops, ML pipeline reproducability, ML model deployment to works (Apple CoreML, TensorRT, tflite, MLFlow, DVC, Dock	-
	• Cloud providers: experience with GCP, AWS, Azure, Papersp	ace
	• Unix/Linux, SQL, Git, R, Matlab, C++, Java, HTML, CSS, Ja	waScript, Julia.
OTHER	• Ongoing: Maintain a blog with posts on machine learning at r	ılml.github.io
ACHIEVEMENT		-
	• 2021: Presented at poster session of IEEE ICIP (online event)	· ·
	• 2018: Presented at Meetup Computer Vision Paris	
	• 2018: Participated in the 2018 Amsterdam Dance Event Hacl in a team to build a deep learning-based reverse image search	`
	• 2016: Placed 1st out of 50 student groups in a Kaggle-style m competition as part of the UvA/VU course <i>Data Mining Tech</i>	achine learning
	• 2015: Placed 17th out of 985 participants in Kaggle's Faceb IV: Human or Robot? data science competition	ook Recruiting
	• 2013: Placed 2nd out of 108 students in the Operations Man at the University of Sydney	agement course
	• 2010: Awarded two separate International Exchange Scholarsh versity of Sydney, based on academic merit	ips by the Uni-
	• 2008: Placed 7th of 2730 students in Australian Higher Sch course Software Design and Development.	nool Certificate
	Hobbies include music (listening and playing keyboard/drums), su	rfing, climbing