## Aidan Gomez

Machine Intelligence + Mathematics

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Foreword.	My greatest strength is my passion for learning. Exploring new topics and honing skill is something that I adore. I find my purpose in learning, extending theory, creating ne techniques, and adding to the collective body of knowledge. I'm extremely privileged to hav met many wonderful people who have inspired my work and passions; I owe much of myse to their kindness, compassion, and ardour.		
Education.	University of Oxford (Since 2018)		
	Doctoral Student Computer Science   Student of Yarin Gal and Yee Whye Teh		
	University of Toronto (Class of 2018)		
	Honours Bachelor of Science (with Distinction)	Computer Science	
		Student of Roger Grosse	
Honours.	Clarendon Scholar Univ	8 Al Grant Fellow rersity College Alumni Scholar n's List	
Experience.	FOR.ai – Research Lead (Toronto, CA)	2017	
	I lead a group of researchers from around the world on machine learning research projects. Our projects are supported and supervised by members of top academic and industrial laboratories.		
	Google Brain – Student Researcher (London, UK)	2018	
	Working with Jakob Uszkoreit and Jeff Dean.		
	Google Brain – Research Intern (Toronto, CA)	2018	
	Worked with Geoff Hinton on the distillati	on of knowledge between Neural Networks.	
	University of Toronto ML Group – Research Intern (To	<b>ronto, CA)</b> 2017	
	Worked with Roger Grosse on polyalphabetic cipher cracking with GANs.		
	Google Brain – Research Intern (Mountain View, USA) 201		
	Worked under the mentorship of Łukasz Kaiser to build a model capable of solving multiple tasks simultaneously, using a single parameter space. Also worked on autoregressive translation models using separable convolutions and attention.		

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Experience.	University of Toronto – Teaching Assistant (Toronto, CA) 2	2017
	Taught students algorithms, analysis, and proofs.	
	Venture Media – Machine Learning Intern (Vancouver, CA)	2015
	Worked under the mentorship of Alejandro Isaza to build an iOS application to perform alignment between live piano audio and sheet music on a mobile device.	
	Microsoft – Computer Science Intern (Seattle, USA)	2016
	Improved Microsoft's B2B products under mentorship of senior developers.	
	AdGo Design (Toronto, CA)	2011
	AdGo Design was a small web development company I began at about 15.	
Research.	Targeted Dropout (NeurIPS 2018 CDNNIA)	
	<b>A. N. Gomez, I. Zhang, K. Swersky, Y. Gal, and G. E. Hinton</b> Extremely simple regularization technique enabling one-shot network pruning with intimate control over sparsity patterns.	
	CipherGAN: Unsupervised Cipher Cracking Using Neural Networks (ICLR 2018, NeurIPS 2017 DISCML)	
	<b>A. N. Gomez</b> , S. Huang, I. Zhang, B. M. Li, O. Muhammad, and Ł. Kaiser CycleGAN-based architecture capable of cracking ciphers without paired examples.	
	The Reversible Residual Network: Backpropagation Without Storing Activations (NeurIPS 2017)	
	{A. N. Gomez, M. Ren}, R. Urtasun, and R. B. Grosse Novel architecture that enables constant activation storage requirements for arbitrary networks.	work
	One Model To Learn Them All	
	Ł. Kaiser, A. N. Gomez, N. Shazeer, A. Vaswani, N. Parmar, L. Jones, and J. Uszkoreit Multi-modal model capable of solving 8 tasks at once, with a single parameter set. Demonstr strong transfer learning and regularization on tasks with limited data.	rates
	Depthwise Separable Convolutions for Neural Machine Translation (ICLR 2018)	
	{Ł. Kaiser, A. N. Gomez, and F. Chollet} 2x reduction in parameters while also establishing token accuracy state-of-the-art in ne machine translation using depthwise separable convolutions.	eural
	Attention Is All You Need (NeurIPS 2017)	

Equal Contribution: {}

## Aidan Gomez

Academic	Organiser		
Community.	Workshop on Invertible Neural Networks and Normalising Flows		
	Reviewer		
	NeurIPS, ICML		
Projects.	github.com/tensorflow/tensor2tensor		
	A. N. Gomez, Ł. Kaiser, N. Parmar, R. Sepassi, N. Shazeer, and A. Vaswani (initial authors) Tensor2Tensor is a library for deep learning models that is well-suited for neural machine translation and includes the reference implementation of the state-of-the-art Transformer model.		
	github.com/for-ai/cloud		
	A. N. Gomez and I. Zhang for-ai/cloud is a python module for automatically managing cloud resources such as instances, TPUs, and more.		
	InTune: Recurrent Neural Networks For Real-Time Music Tracking		
	A. N. Gomez and A. Isaza iOS app that tracks user's live position in sheet music while playing piano using LSTMs.		
Invited	Targeted Dropout		
Talks.	Machine Intelligence Conference (MIT Media Lab) GDG Devfest Reading (Reading University)		
	Reversible Residual Networks		
	Toronto Machine Learning Summit		
	TD Bank (formerly Layer6 Al)		
	Nvidia		
	One Model To Learn Them All		
	CUCSC (University of Toronto)		
Passion.	Companions to the Order of Malta, Oxford		
	Each week I am incredibly fortunate to be able to spend time having conversations with and serving food and drink to fellow Oxfordians living without shelter.		
	The Good Shepard Shelter Toronto		
	I began volunteering at the Good Shepard as a way to give back to those who needed it most. I absolutely loved it, and cannot overstate how grateful I am for having had the opportunity to serve.		

## Aidan Gomez

Afterword. If you've taken the time to read my resume, I am grateful and deeply humbled. I do hope you've found something of common interest and that you reach out to chat about it!

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