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Education	California Institute of Technology (Caltech) Ph.D. in Computation & Neural Systems Pasadena, CA	2014 - 2021	
	University of Minnesota, Twin Cities B.S. in Physics, Minor in Computer Science Minneapolis, MN	2010-2014 High Distinction	
Work Experience	DeepMind London, UK	Research Scientist October 2021 – Present	
	Disney Research Pittsburgh, PA	R&D Lab Associate (Intern) March 2017 – June 2017	
Preprints	Insights from Generative Modeling for Neural Video Compression Ruihan Yang, Yibo Yang, Joseph Marino, Stephan Mandt arXiv: 2107.13136		
	Beyond Target Networks: Improving Deep Q-Learning with FR 2021 Alexandre Piché, Joseph Marino, Gian Maria Marconi, Chris Pal, Mohammad Emtiyaz Khan arXiv: 2106.02613		
Conference Publications	Iterative Amortized Policy Optimization  Joseph Marino, Alexandre Piché, Alessandro Davide Ialongo, Yisong Yue  Neural Information Processing Systems (NeurIPS)		
	Hierarchical Autoregressive Modeling for Neural Video Compression Ruihan Yang, Yibo Yang, Joseph Marino, Stephan Mandt International Conference on Learning Representations (ICLR)		
	VAEs with Jointly Optimized Latent Dependence Jiawei He, Yu Gong, Joseph Marino, Greg Mori, And International Conference on Learning Representations (	reas Lehrmann	
	A General Method for Amortizing Variational Filtering Joseph Marino, Milan Cvitkovic, Yisong Yue Neural Information Processing Systems (NeurIPS)		
	Probabilistic Video Generation using Holistic Attribute Control Jiawei He, Andreas Lehrmann, Joseph Marino, Greg Mori, Leonid Sigal European Conference on Computer Vision (ECCV)		
	Iterative Amortized Inference Joseph Marino, Yisong Yue, Stephan Mandt International Conference on Machine Learning (ICML)	2018	
Journal Publications	Predictive Coding, Variational Autoencoders, an Joseph Marino Neural Computation	ad Biological Connections 2021	

	Improving Sequential Latent Variable Models with Autoregressive Flow Joseph Marino, Lei Chen, Jiawei He, Stephan Mandt Machine Learning	s 2021
Selected Workshop Publications	Scale Space Flow with Autoregressive Priors Ruihan Yang, Yibo Yang, Joseph Marino, Stephan Mandt ICLR 2021 Workshop on Neural Compression	2021
	Sequential Autoregressive Flow-Based Policies Alex Guerra, Joseph Marino ICML INNF Workshop	2020
	On the Design of Variational RL Algorithms Joseph Marino, Alexandre Piché, Yisong Yue NeurIPS Deep Reinforcement Learning Workshop	2019
	An Inference Perspective on Model-Based Reinforcement Learning Joseph Marino, Yisong Yue  ICML Workshop on Generative Modeling & Model-Based Reasoning	2019
Thesis	Learned Feedback & Feedfoward Perception & Control Joseph Marino Ph.D. Thesis	2021
Teaching	CNS 187 - Neural Computation (Teaching Assistant, Guest Lecturer)  Lectures: Convolutional Neural Networks, Biological Inspiration	2015 - 2016
	CS 155 - Machine Learning & Data Mining (Guest Lecturer) Lectures: Intro. to Deep Learning, CNNs & RNNs, Deep Generative Models	2017 - 2020
	Theory of Biological Computation (Guest Lecturer)  Lectures: Predictive Coding	2018
	CS 159 - Special Topics in Machine Learning (Teaching Assistant, Lecturer)  Lectures: Intro. to Deep Generative Models, Latent Variable Models, Amortized (Model-Based RL)	2019-2021 Optimization,
	CS 259 - [@ UC Irvine] Deep Generative Models (Guest Lecturer)  Lectures: Deep Sequential Latent Variable Models	2019 - 2020
Reviewing	Conferences  • ICLR: 2021, 2022  • NeurIPS: 2019, 2020, 2021  • ICML: 2019, 2020, 2021  • CVPR: 2017, 2018, 2019  • ECCV: 2018  • ICCV: 2017  Journals  • Foundations & Trends in Machine Learning: 2021	
${f A}$ wards	NSF GRFP Honorable Mention Kunzel Fellowship, Caltech Dean's List, University of Minnesota Summer Undergraduate Research Fellowship, Caltech Eagle Scout Award, Boy Scouts of America	$2016 \\ 2014 - 2017 \\ 2010 - 2014 \\ 2013 \\ 2010$