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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	xperience DeepMind Resea London, UK October 20	
	Disney Research Pittsburgh, PA	R&D Lab Associate (Intern) March 2017 – June 2017
Preprints	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 Alexandre Piché, Joseph Marino, Gian Maria Marconi, Chris Pal, Mohammad arXiv: 2106.02613	
Conference Publications	Iterative Amortized Policy Optimization Joseph Marino, Alexandre Piché, Alessandro Davide I Neural Information Processing Systems (NeurIPS)	Z021 Ialongo, Yisong Yue
	Hierarchical Autoregressive Modeling for Neural Ruihan Yang, Yibo Yang, Joseph Marino, Stephan M International Conference on Learning Representations (andt
	VAEs with Jointly Optimized Latent Dependency Structure Jiawei He, Yu Gong, Joseph Marino, Greg Mori, Andreas Lehrmann International Conference on Learning Representations (ICLR)	
	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

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Selected Workshop Publications	Scale Space Flow with Autoregressive Priors Ruihan Yang, Yibo Yang, Joseph Marino, Stephan Mandt ICLR 2021 Workshop on Neural Compression	
	Sequential Autoregressive Flow-Based Policies Alex Guerra, Joseph Marino ICML INNF Workshop	2020
	Improving Sequential Latent Variable Models with Autoregressive Flow Joseph Marino, Lei Chen, Jiawei He, Stephan Mandt Advances in Approximate Bayesian Inference (AABI)	vs 2019
	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
Relevant Coursework	Machine Learning: Introduction to Data Mining, Mathematical Modeling, Learning System Neural Computation, Machine Learning and Data Mining, Advanced Topics in Machine Learning, CIFAR Deep Learning/Reinforcement Learning Summer School 2016 & 2017	
	Neuroscience: Introduction to Neuroscience, Introduction to Computation and Neural Systems, Brain Circuits, Topics in Systems Neuroscience, Introduction to Vision, Principles of Neuroscience, Theory of Biological Computation	
Reviewing	ICLR, NeurIPS, ICML, CVPR, ICCV, ECCV	
Awards	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	$2016 \\ 2014 - 2017 \\ 2010 - 2014 \\ 2013 \\ 2010$