	email: josephmarino@google.com	website: joelouismarino.github.io	
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	Google DeepMind London, UK Senior Research Sc May 2024 – P		
		Research Scientist October 2021 – May 2024	
	Disney Research Pittsburgh, PA	R&D Lab Associate (Intern) March 2017 – June 2017	
Preprints	Scaling Instructable Agents Across Many Simulated Worlds SIMA Team $arXiv$		
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 Depender Jiawei He, Yu Gong, Joseph Marino, Greg Mori, Ar International Conference on Learning Representations	ndreas Lehrmann	
	A General Method for Amortizing Variational Joseph Marino, Milan Cvitkovic, Yisong Yue Neural Information Processing Systems (NeurIPS)	Filtering 2018	
	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 (ICM)	2018 L)	
Journal Publications	Bridging the Gap Between Target Networks and Functional Regularization 2023 Alexandre Piché, Valentin Thomas, Rafael Pardinas, Joseph Marino , Gian Maria Marconi, Chris Pal, Mohammad Emtiyaz Khan Transactions on Machine Learning Research		
	Insights from Generative Modeling for Neural	-	

Ruihan Yang, Yibo Yang, **Joseph Marino**, Stephan Mandt Transactions on Pattern Analysis & Machine Intelligence

	Predictive Coding, Variational Autoencoders, and Biological Connections Joseph Marino Neural Computation	2022
	Improving Sequential Latent Variable Models with Autoregressive Flows Joseph Marino, Lei Chen, Jiawei He, Stephan Mandt Machine Learning	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	CS 159 - Special Topics in Machine Learning (Teaching Assistant, Lecturer) 2 Lectures: Intro. to Deep Generative Models, Latent Variable Models, Amortized Option Model-Based RL	$019-2021 \ timization,$
	CS 155 - Machine Learning & Data Mining (Guest Lecturer) Lectures: Intro. to Deep Learning, CNNs & RNNs, Deep Generative Models	017 – 2020
	CS 259 - [@ UC Irvine] Deep Generative Models (Guest Lecturer) Lectures: Deep Sequential Latent Variable Models	019 – 2020
	Theory of Biological Computation (Guest Lecturer) Lectures: Predictive Coding	2018
	CNS 187 - Neural Computation (Teaching Assistant, Guest Lecturer) Lectures: Convolutional Neural Networks, Biological Inspiration	015 - 2016
Reviewing	Conferences	

• ICLR: R: 2021–2023, AC: 2024

NeurIPS: R: 2019–2023
ICML: R: 2019–2022
CVPR: R: 2017–2019

ECCV: R: 2018ICCV: R: 2017

Journals

 \bullet Foundations & Trends in Machine Learning: 2021–2022

Awards	NSF GRFP Honorable Mention	2016
	Kunzel Fellowship, Caltech	2014-2017
	Dean's List, University of Minnesota	2010 - 2014
	Summer Undergraduate Research Fellowship, Caltech	2013
	Eagle Scout Award, Boy Scouts of America	2010