Education	California Institute of Technology Ph.D. Candidate in Computation and Neural Systems	2014 - Present 2010 - 2014 High Distinction	
	University of Minnesota, Twin Cities B.S. in Physics, Minor in Computer Science		
Recent Work Experience	Disney Research Pittsburgh, PA	R&D Lab Associate (Intern) March 2017 - June 2017	
Publications	Improving Sequential Latent Variable Models with Autorega Joseph Marino, Lei Chen, Jiawei He, Stephan Mandt Advances in Approximate Bayesian Inference (AABI)	ressive Flows 2019	
	Predictive Coding, Variational Autoencoders, and Biological Joseph Marino NeurIPS Workshop on Real Neurons & Hidden Units	1 Connections 2019	
	On the Design of Variational RL Algorithms Joseph Marino, Alexandre Piche, Yisong Yue NeurIPS Deep Reinforcement Learning Workshop	2019	
	An Inference Perspective on Model-Based Reinforcement Le Joseph Marino, Yisong Yue ICML Workshop on Generative Modeling & Model-Based Reasoning	earning 2019	
	VAEs with Jointly Optimized Latent Dependency Structure Jiawei He, Yu Gong, Joseph Marino, Greg Mori, Andreas Lehrman International Conference on Learning Representations (ICLR)		
	A General Method for Amortizing Variational Filtering Joseph Marino, Milan Cvitkovic, Yisong Yue Neural Information Processing Systems (NeurIPS)	2018	
	Probabilistic Video Generation using Holistic Attribute Con Jiawei He, Andreas Lehrmann, Joseph Marino, Greg Mori, Leonid European Conference on Computer Vision (ECCV)		
	Iterative Amortized Inference Joseph Marino, Yisong Yue, Stephan Mandt International Conference on Machine Learning (ICML)	2018	
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	2017-2020 $Models$	
	Theory of Biological Computation (Guest Lecturer)  Lectures: Predictive Coding	2018	
	CS 159 - Special Topics in Machine Learning (Teaching Assistant, Lecturer) 2019 – 2020 Lectures: Intro. to Deep Generative Models, Latent Variable Models, Amortized Optimization		

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 $\operatorname{CS}$ 259 - [@ UC Irvine] Deep Generative Models (Guest Lecturer)

2019 - 2020

Lectures: Deep Sequential Latent Variable Models

## Relevant Coursework

Machine Learning: Introduction to Data Mining, Mathematical Modeling, Learning Systems, 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

NeurIPS, ICML, CVPR, ICCV, ECCV

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