

Hao Wu

GENERAL INFORMATION	Email: wu.hao10@northeastern.edu Homepage: hao-w.github.io	Phone: (+1) 206-369-8865 Github: hao-w
RESEARCH INTERESTS	Deep Probabilistic Models, Amortized Inference, Probabilistic Programming	
EDUCATION	Ph.D, Computer Science Northeastern University Supervisor: Jan-Willem van de Meent	2017 - Present Boston, MA
	M.Sc, Computer Science University of Virginia	2015 - 2016 Charlottesville, VA
	M.Sc, Applied Mathematics University of Washington	2014 - 2015 Seattle, WA
	B.Sc, Mathematics Sichuan University	2010 - 2014 Chengdu, China
PROFESSIONAL EXPERIENCE	Research Intern IBM Research	Summer 2021 Cambridge, MA
	Research Assistant Intern Oracle Labs	Summer 2020 Burlington, MA
	Research Assistant Northeastern University	2017 - Present Boston, MA
	Associate Software Engineer MicroStrategy	2017 Tysons, VA
PUBLICATIONS	<p>Heiko Zimmermann, Hao Wu, Babak Esmaeili, Sam Stites, Jan-Willem van de Meent. Nested Variational Inference. <i>Conference on Neural Information Processing Systems, 2021</i></p> <p>Sam Stites*, Heiko Zimmermann*, Hao Wu, Eli Sennesh, Jan-Willem van de Meent. Learning Proposals for Probabilistic Programs with Inference Combinators. <i>Uncertainty in Artificial Intelligence, 2021</i>.</p> <p>Hao Wu*, Babak Esmaeili*, Michael Wick, Jean-Baptiste Tristan, Jan-Willem van de Meent. Conjugate Energy-Based Models. <i>International Conference on Machine Learning, 2021</i>.</p> <p>Hao Wu, Heiko Zimmermann, Eli Sennesh, Tuan-Anh Le, Jan-Willem van de Meent. Amortized Population Gibbs Samplers with Neural Sufficient Statistics. <i>International Conference on Machine Learning, 2020</i>.</p>	

Babak Esmaeili, **Hao Wu**, Sarthak Jain, Alican Bozkurt, N. Siddharth, Brooks Paige, Dana H. Brooks, Jennifer Dy, Jan-Willem van de Meent. Structured Disentangled Representations. *International Conference on Artificial Intelligence and Statistics, 2019*.

Eli Sennesh, Adam Ścibior, **Hao Wu**, Jan-Willem van de Meent. Composing Modeling and Inference Operations with Probabilistic Program Combinators. *NeurIPS Bayesian Nonparametrics Workshop, 2018*.

TEACHING	Teaching Assistant	2018, 2021
EXPERIENCE	Northeastern University - Unsupervised Machine Learning and Data Mining	Boston, MA
SKILLS	Computer Programming: Python, Java Operating Systems: Linux, Windows	