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 2017 - Present
Northeastern University Boston, MA
Supervisor: Jan-Willem van de Meent

M.Sc, Computer Science 2015 - 2016
University of Virginia Charlottesville, VA

M.Sc, Applied Mathematics 2014 - 2015
University of Washington Seattle, WA

B.Sc, Mathematics 2010 - 2014
Sichuan University Chengdu, China

PROFESSIONAL EXPERIENCE

Research Intern Summer 2021
IBM Research Cambridge, MA

Research Assistant Intern Summer 2020
Oracle Labs Burlington, MA

Research Assistant 2017 - Present
Northeastern University Boston, MA

Associate Software Engineer 2017
MicroStrategy Tysons, VA

PUBLICATIONS

Sam Stites*, Heiko Zimmermann*, **Hao Wu**, Eli Sennesh, Jan-Willem van de Meent. Learning Proposals for Probabilistic Programs with Inference Combinators. *Uncertainty in Artificial Intelligence, 2021.*

Hao Wu*, Babak Esmaeili*, Michael Wick, Jean-Baptiste Tristan, Jan-Willem van de Meent. Conjugate Energy-Based Models. *International Conference on Machine Learning, 2021.*

Heiko Zimmermann, **Hao Wu**, Babak Esmaeili, Sam Stites, Jan-Willem van de Meent. Nested Variational Inference. *Symposium on Advances in Approximate Bayesian Inference, 2021*

Hao Wu, Heiko Zimmermann, Eli Sennesh, Tuan-Anh Le, Jan-Willem van de Meent. Amortized Population Gibbs Samplers with Neural Sufficient Statistics. *International Conference on Machine Learning, 2020.*

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