

Bryan Zaldivar (some of the works in progress)

- Uncertainty estimation of efficiency in neutrino studies in Super-Kamiokande
(Bayesian neural networks; Variational Inference)
- Construction of a data-driven catalogue of point-like gamma-ray sources using Fermi-LAT data
(Kernel Density Estimation; unsupervised methods)
- Development of ML-driven error correction algorithms for quantum computing
(Quantum Machine Learning)
- Improving approximate inference in Bayesian networks with Implicit Stochastic Processes
(Variational Inference; "Neural samplers", Stochastic Processes)