**# deep-Bayesian-nonparametrics**

The collection of papers about combining deep learning with Bayesian nonparametrics

We made a concise name "deep Bayesian non-parametrics"(DBNP) to a series of work bringing the fields of deep learning and Bayesian non-parametrics together. Generally, not only DBNP means combining the neural networks with stochastic processes in Bayesian modelling, but also leveraging common and effective structures designed in deep learning, such as convolution, recurrence and deep hierachies, in Bayesian non-parameterics setting. Meanwhile, corresponding training methods designed for these models, especially approximate inference, are also our concerns.

**Deep Gaussain Process Models and Inference Algorithms**

1. [Deep Gaussian Processes](https://arxiv.org/abs/1211.0358)