Limitations of Fourier Descriptor Approach

- Only Defined for Four-Bar with Revolute Joints

- Restrictive Objective

  - Mathematically Optimal Solution may not be practically optimal

  - discards a large proportion of numerically sub-optimal solutions with desirable properties

Need of Generative Model

- Input Conditioning and Imputation requires capturing the underlying pattern

- Learning joint probability distribution of linkage parameters

- Generate Variational Inputs to exploit nonlinear nature of the problem