

Investigate the use of sampling to perform approximate inference in PSMs

```
graph TD; Root[Investigate the use of sampling to perform approximate inference in PSMs] --> Theory[Theory]; Root --> Algorithms[Algorithms]; Root --> Applications[Applications]; Theory --> TheoryBox["(Chapter 3)  
Gibbs Sampling in PSMs"]; Algorithms --> AlgorithmsBox["(Chapter 4)  
Improved Mixing  
using Semigradients"]; Applications --> ApplicationsBox["(Chapter 5)  
Modeling Interactions  
btw. Cancer Mutations"];
```

Theory

Algorithms

Applications

(Chapter 3)

Gibbs Sampling in PSMs

(Chapter 4)

Improved Mixing
using Semigradients

(Chapter 5)

Modeling Interactions
btw. Cancer Mutations