## UCLA Biostatistics 285: Homework 2

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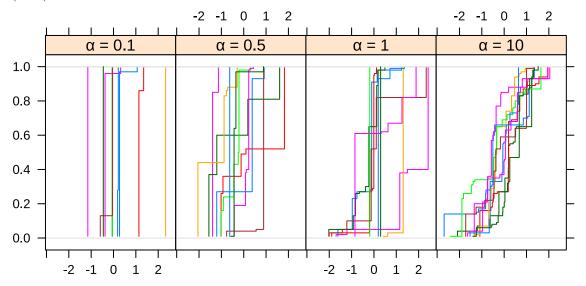
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## 1 Problem 1

## 1.1 Part 1

The function Sethu\_jump generates the jumps given a truncation option and a  $\alpha$ . The generate\_DPH uses a jump function (here we use the Sethu\_jump) and takes input a base measure and its parameters along with  $\alpha$ , truncation parameter K and number of samples to be generated. The final output is realizations of  $DP(\alpha, \mathcal{N}(0,1))$  approximated by finite truncation with 20 terms as described in Ishwaran and Zarepour (2002).



## References

Ishwaran, Hemant, and Mahmoud Zarepour. 2002. "Exact and Approximate Sum Representations for the Dirichlet Process." Canadian Journal of Statistics 30 (2): 269–83. https://doi.org/https://doi.org/10.2307/3315951.