## Chapter 2

## **Random Matrices**

(**Definition**) Random Matrix. Suppose we have an arbitrary matrix,  $P \in \mathcal{M}_{\mathbb{R}}[M, N]$  for some  $M, N \in \mathbb{N}^+$ . Then, we call P a random matrix is all of its entries  $p_{ij}$  are random variables.

(Definition) Stochastic Matrix

(Definition) Ergodic Matrix.

## Ergodicity

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