

Diagram illustrating a single-channel linear model. A blue vertical bar represents the output vector $y \in \mathbb{R}^{N \times 1}$. A red rectangle represents the channel matrix $\Phi \in \{0, 1\}^{N \times M}$. A green vertical bar represents the input vector $x \in \mathbb{R}^{M \times 1}$. The equation $y = \Phi x + v$ is shown below the diagram.

Diagram illustrating a multi-channel linear model. A blue and gold striped vertical bar represents the output matrix $Y \in \mathbb{R}^{N \times L}$. A red rectangle represents the channel matrix $\Phi \in \{0, 1\}^{N \times M}$. A green and gold striped vertical bar represents the input matrix $X \in \mathbb{R}^{M \times L}$. A red arrow labeled "Channels" points right, and a green arrow labeled "Samples" points down. The equation $Y = \Phi X + V$ is shown below the diagram.