This is a latex file.

$$S\left(\theta\right) = \frac{1}{1 + e^{-\theta}}$$

$$\dot{x}_i = -x_i + S\left(\rho_i + \sum_{j=1}^{N} c_{ij}x_j\right) \quad \text{where} \quad x_i \in \mathbb{R} \quad \text{and} \quad i = i, \cdots, N$$

I am working on a model of interactions of basal ganglia and thalamus that can help interpret Josh Burk's behavioral experiments (e.g., stop signal reaction time).