FIG. 2. Reservoir computing (RC) as defined in Eq. (4), including a randomly selected $d_r \times d_x$ read-in matrix, $\mathbf{W}^{in}$ from $d_x \times 1$ states vector $\mathbf{x}$, a randomly selected $d_r \times d_r$ inner layer recurrence matrix A for inner states $d_r \times 1$ vector $\mathbf{r}$, and the $d_x \times d_r$ *trained readout matrix* $\mathbf{W}^{out}$.