

- ▶ Define a Markov stochastic process

- ▶ Explain why in this case, learning from a sequence is equivalent to a sequence of learning problems

- ▶ Define a recurrent neural network (RNN)

- ▶ Define a graph recurrent neural network (GRNN)

- ▶ Explain the problem of vanishing gradients in RNNs.

- ▶ Explain gating in an LSTM with forget, inout and output gates.

- ▶ Explain time gating in GRNNs. You do not need to explain how the gating values are updated.

- ▶ Explain node and edge gating in GRNNs. You do not need to explain how the gating values are updated.

- ▶ Describe an epidemic propagation SIR model and how a GRNN can be used to predict information spread.