Project 6: Illusory contours

1) Implement the Gibbs sampling model of contour detection described in *Computational Foundations of Cognitive Neuroscience* (Chapter 5). Show how it behaves when presented with a Kanizsa figure, including different variations studied in Lee & Nguyen (2001). What happens when you alter the strength of lateral connections and tuning width?

2) Discuss this simulation in relation to experimental data on illusory contours in visual areas V1 and V2 reported by Lee & Nguyen. What's missing from the model?

References:

Lee, T. S., & Nguyen, M. (2001). Dynamics of subjective contour formation in the early visual cortex. *Proceedings of the National Academy of Sciences, 98*, 1907-1911.