Outline
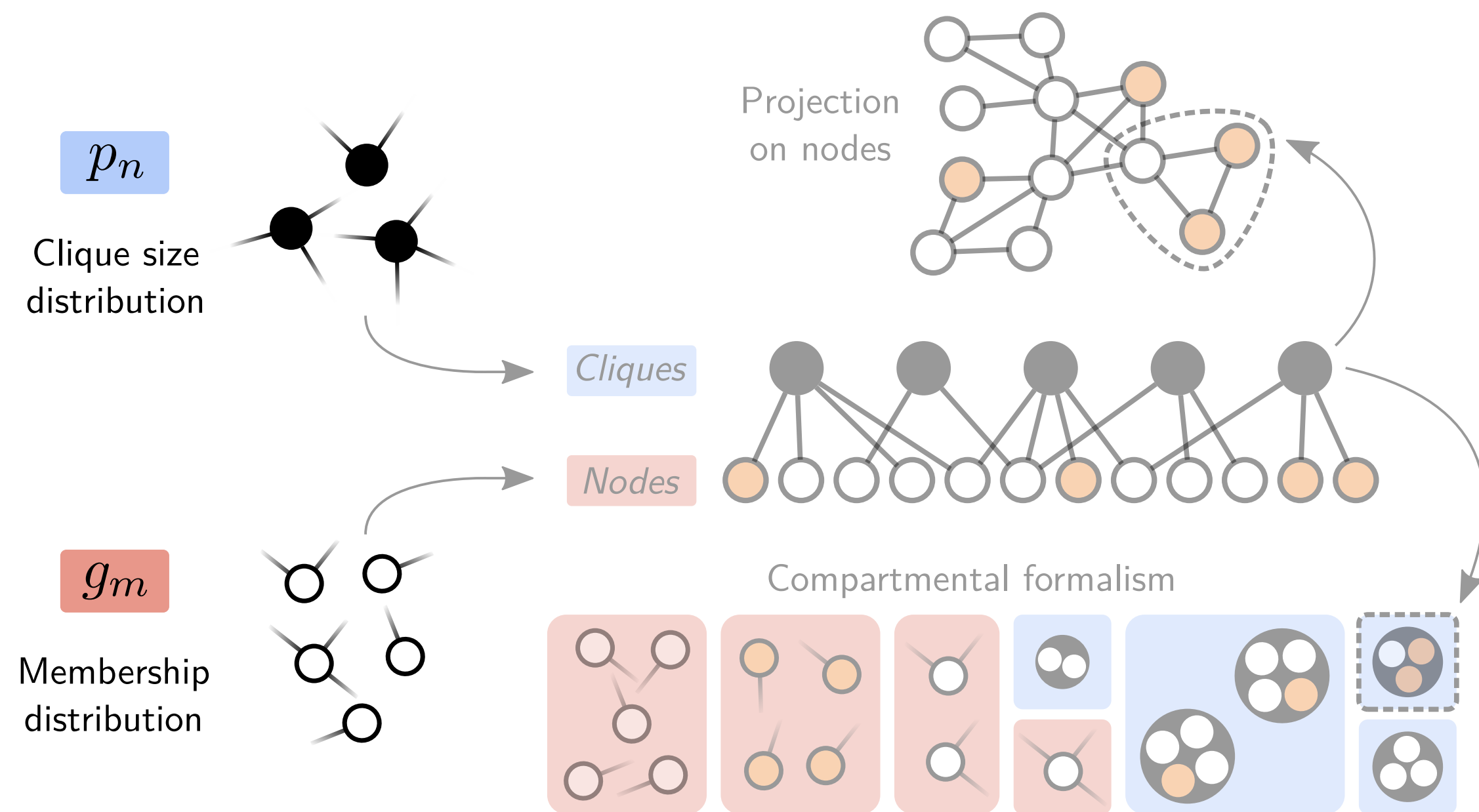
1. **The model and its mathematical description**

2. Some applications

   (a) Mesocopic localization

   (b) Heterogeneous transmission settings

   (c) Context-sensitive behavior

The model and its mathematical description

g_m : fraction of nodes with membership m
p_n : fraction of groups of size n

M.E.J. Newman, *Properties of highly clustered networks*, Phys. Rev. E 68, 026121 (2003)