This talk concerns quantum Chern-Simons theory on a torus. For suitable choices of gauge group \( G \), rigorous analytic models for the quantum theory are determined by Weyl quantization via geometric quantization of the moduli space of flat \( G \)-connections on the torus. In the case \( G = SU(2) \), R. Gelca and A. Uribe showed that this quantum model is equivalent to the Reshetikhin-Turaev model arising from quantum groups. This Weyl quantization scheme is possible whenever \( G \) is compact and simply connected. I will describe this process with the case \( G = SU(3) \) and discuss the resulting model. (Received July 18, 2017)