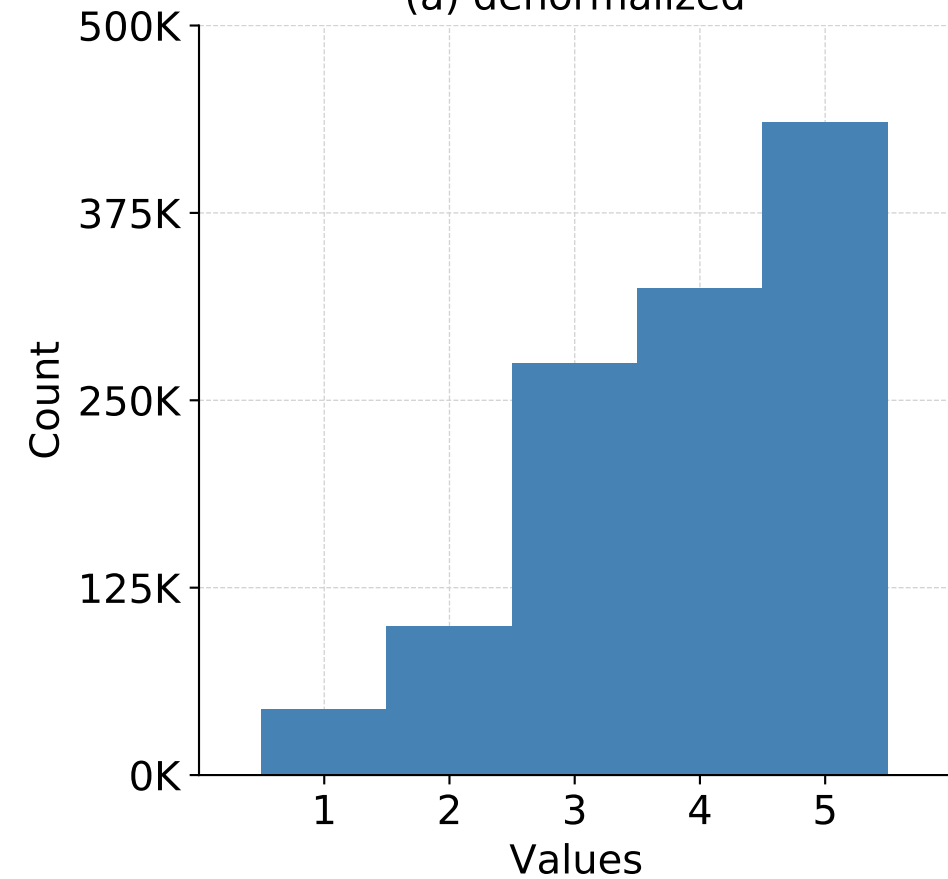
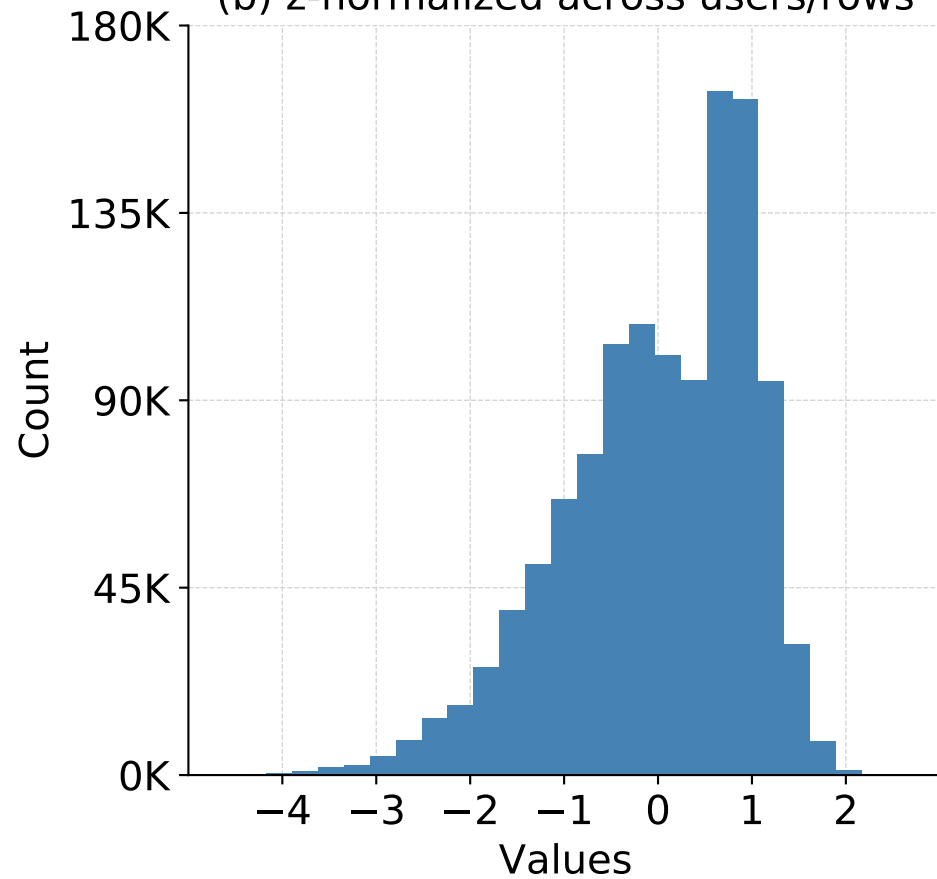


(a) denormalized



(b) z-normalized across users/rows



(c) z-normalized across items/cols

