gdp
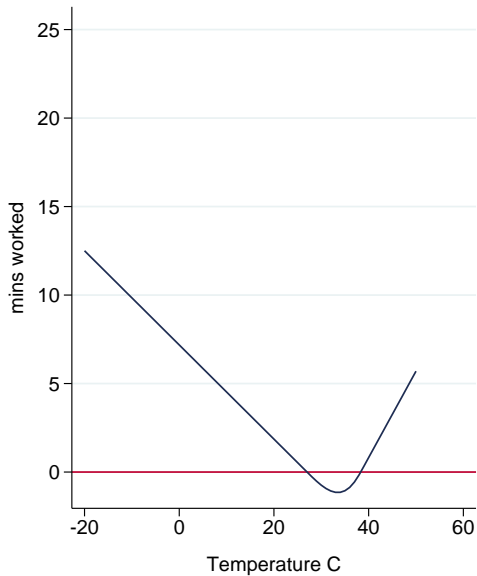interacted_reg_1_factor