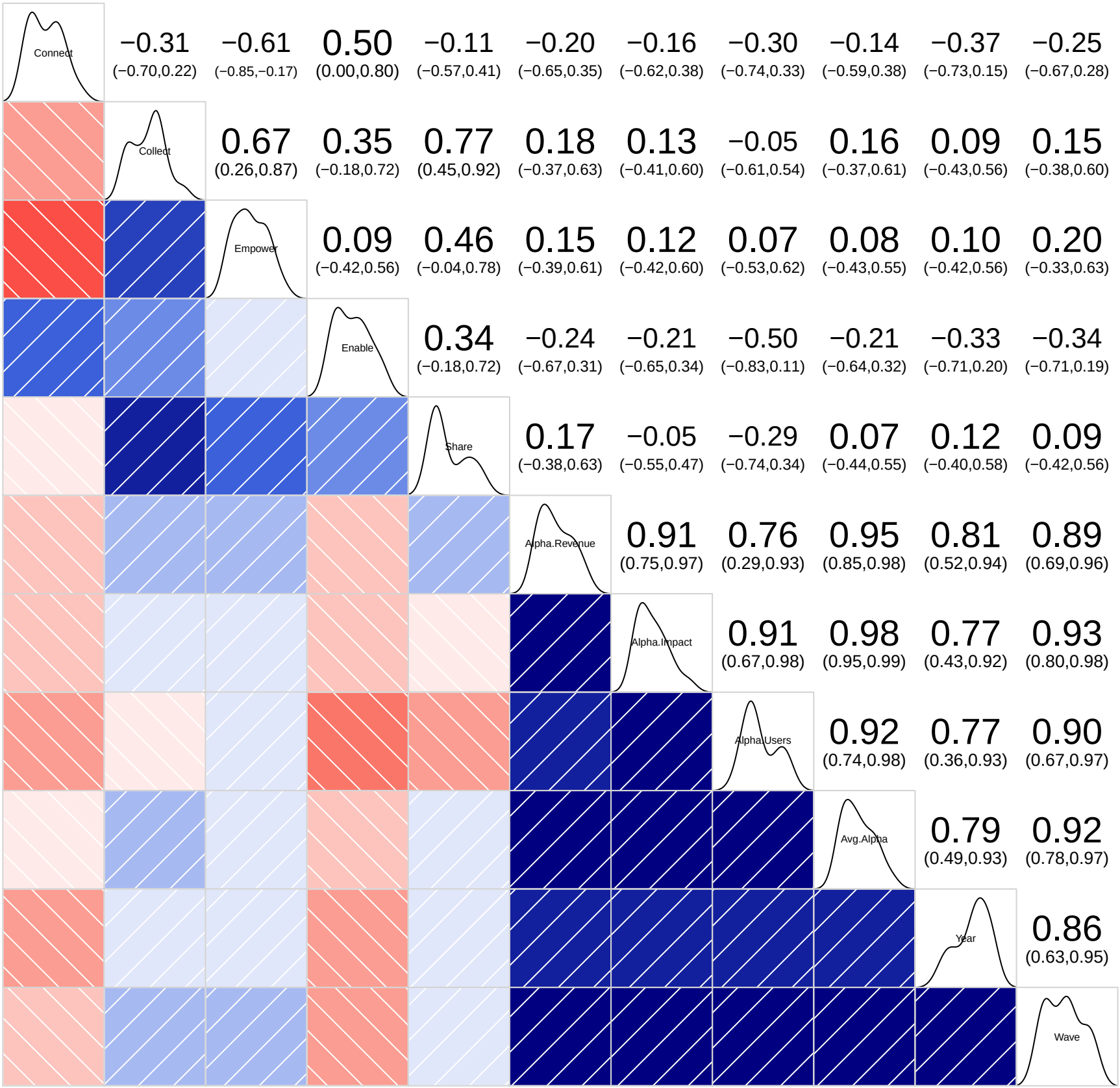Pentagon−Wave−Alphas for all