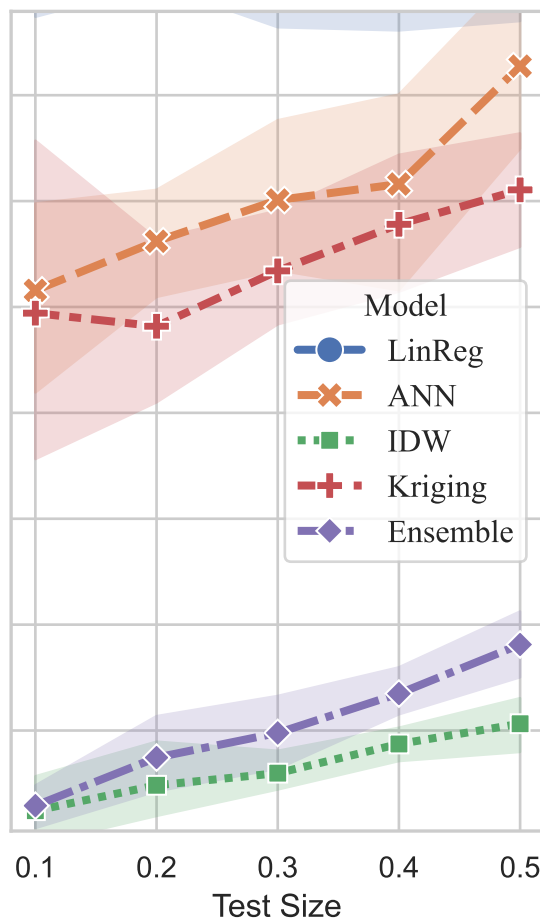a) Spiral XYZ only (Rand)   b) Spiral AED only (Rand)