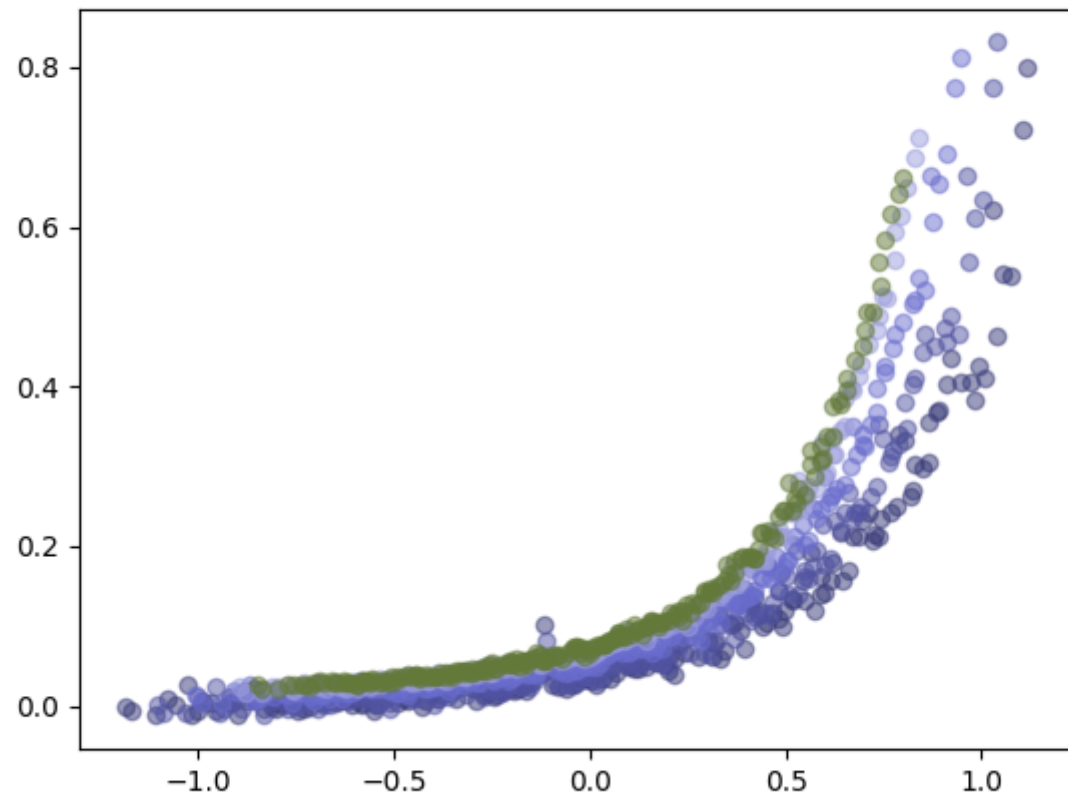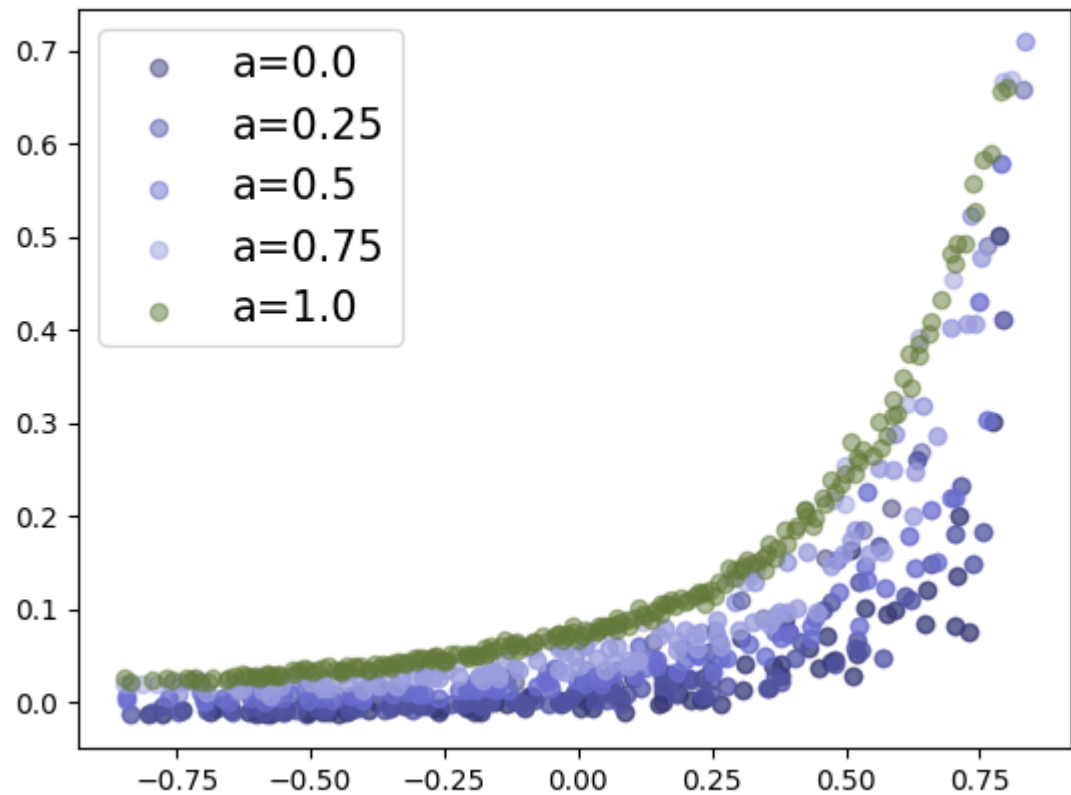Feedforward recurrent alignment