

Table 1: Discounted return of different choices of α , averaged over 3 random seeds. The best results have been boldened, and $\alpha = 1$ corresponds to original GoFAR algorithm

$\alpha \setminus \text{Env}$	FetchReach	FetchPick	FetchPush	FetchSlide	HandReach
0.01	27.4 \pm 0.29	18.5 \pm 0.1	18.0 \pm 1.8	2.36 \pm 1.13	8.72 \pm 1.69
0.02	27.4 \pm 0.32	18.7 \pm 1.8	18.6 \pm 2.6	2.40 \pm 0.47	7.96 \pm 1.27
0.05	27.4 \pm 0.32	17.3 \pm 1.1	19.3 \pm 2.0	3.18 \pm 0.90	8.98 \pm 3.11
0.1	27.4 \pm 0.33	20.3 \pm 1.3	20.3 \pm 2.5	3.22 \pm 0.38	5.28 \pm 1.25
0.2	27.4 \pm 0.32	20.7 \pm 0.9	17.7 \pm 2.9	2.25 \pm 0.23	2.92 \pm 0.98
0.5	27.5 \pm 0.29	18.5 \pm 0.4	20.1 \pm 2.2	3.47 \pm 1.08	5.74 \pm 2.72
1	27.3 \pm 0.34	18.2 \pm 1.2	19.6 \pm 1.6	2.75 \pm 1.84	7.13 \pm 3.60
2	27.4 \pm 0.29	18.3 \pm 0.7	19.6 \pm 1.4	1.80 \pm 0.66	3.99 \pm 1.88

Table 2: Final distance of different choices of α , averaged over 3 random seeds. The best results have been boldened, and $\alpha = 1$ corresponds to original GoFAR algorithm

$\alpha \setminus \text{Env}$	FetchReach	FetchPick	FetchPush	FetchSlide	HandReach
0.01	0.0171 \pm 0.0017	0.042 \pm 0.004	0.033 \pm 0.001	0.1177 \pm 0.012	0.0269 \pm 0.0049
0.02	0.0168 \pm 0.0016	0.045 \pm 0.012	0.031 \pm 0.002	0.1085 \pm 0.010	0.0274 \pm 0.0049
0.05	0.0181 \pm 0.0011	0.052 \pm 0.013	0.032 \pm 0.002	0.1061 \pm 0.009	0.0270 \pm 0.0049
0.1	0.0173 \pm 0.0014	0.032 \pm 0.010	0.027 \pm 0.002	0.1018 \pm 0.002	0.0275 \pm 0.0043
0.2	0.0172 \pm 0.0019	0.031 \pm 0.004	0.031 \pm 0.003	0.1029 \pm 0.010	0.0275 \pm 0.0046
0.5	0.0166 \pm 0.0011	0.044 \pm 0.009	0.031 \pm 0.005	0.1017 \pm 0.017	0.026826 \pm 0.0049
1	0.0175 \pm 0.0013	0.043 \pm 0.011	0.043 \pm 0.012	0.1202 \pm 0.019	0.026828 \pm 0.0044
2	0.0171 \pm 0.0011	0.034 \pm 0.005	0.032 \pm 0.001	0.1044 \pm 0.011	0.0275 \pm 0.0045