

**Supplementary material**

## Appendix 1

Table A1. Model selection for predictors of closest approach to decoy. Models listed are those with an Akaike weight greater than 0.015 and the intercept-only model. Last row shows sums of Akaike weights for all models containing each predictor.

Predictor		k	AIC <sub>c</sub>	ΔAIC <sub>c</sub>	Akaike
ck. age	trials	6	1148.00	0.00	0.096
ck. age	trials dist time	8	1148.94	0.94	0.060
ck. age	trials numcks	7	1149.30	1.30	0.050
ck. age	trials sex numcks	7	1149.30	1.30	0.050
ck. age	trials p. age	7	1149.40	1.40	0.048
ck. age	trials dist	7	1149.46	1.46	0.046
ck. age	trials time	7	1149.46	1.46	0.046
ck. age	trials who	7	1149.80	1.80	0.039
ck. age	trials sex	7	1150.18	2.18	0.032
ck. age	trials p. age numcks	8	1150.30	2.30	0.030
ck. age	trials time numcks	8	1150.60	2.60	0.026
ck. age	trials dist numcks	8	1150.70	2.70	0.025
ck. age	trials time p. age	8	1150.99	2.99	0.022
ck. age	trials dist p. age	8	1151.06	3.06	0.021
ck. age	trials who numcks	8	1151.21	3.21	0.019
ck. age	trials dist who	8	1151.25	3.25	0.019

ck. age	trials			p. age		who		8	1151.30	3.30	0.018
ck. age	trials		time			who		8	1151.41	3.41	0.017
ck. age	trials			p. age		sex		8	1151.62	3.62	0.016
ck. age	trials	dist				sex		8	1151.66	3.66	0.015
ck. age	trials		time			sex		8	1151.68	3.68	0.015
(intercept only)								4	1169.82	21.82	0.000
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1.0	1.0	0.34	0.35	0.32	0.28	0.27	0.38				

Table A2. Model selection for predictors of time spent within 10 m of decoy. Models listed are those with an Akaike weight greater than 0.015 and the intercept-only model.

Last row shows sums of Akaike weights for all models containing each predictor.

Predictors i								K	AIC <sub>c</sub>	ΔAIC <sub>c</sub>	Akaike
ck. age	trials		time					7	2020.35	0.00	0.133
ck. age			time					6	2020.80	0.44	0.107
ck. age	trials		time	p. age				8	2021.93	1.58	0.060
ck. age	trials		time		sex			8	2022.50	2.15	0.045
ck. age	trials		time			numcks		8	2022.54	2.19	0.044
ck. age	trials	dist	time					8	2022.55	2.20	0.044
ck. age	trials		time			who		8	2022.55	2.20	0.044
ck. age	trials							6	2022.98	2.62	0.036
ck. age								5	2023.47	3.11	0.028
ck. age	trials		time	p. age	sex			9	2024.11	3.75	0.020
ck. age	trials	dist	time	p. age				9	2024.15	3.79	0.020
ck. age	trials		time	p. age		who		9	2024.16	3.80	0.020
ck. age	trials		time	p. age		numcks		9	2024.16	3.80	0.020
ck. age				p. age				6	2024.16	3.80	0.020
ck. age	trials			p. age				7	2024.19	3.84	0.020
ck. age	trials	dist	time		sex			9	2024.74	4.38	0.015
ck. age	trials		time		sex	who		9	2024.74	4.38	0.015
ck. age	trials		time		sex	numcks		9	2024.74	4.38	0.015
ck. age	trials	dist	time			numcks		9	2024.78	4.42	0.015
ck. age	trials		time			who	numcks	9	2024.78	4.42	0.015
(Intercept only)								4	2026.39	6.04	0.006
0.98											
	0.80		0.21	0.72	0.27	0.21	0.21	0.21			

Table A3. Model selection for predictors of tendency of male parent to yodel during decoy trial. Models listed are those with an Akaike weight greater than 0.015 and the intercept-only model. Last row shows sums of Akaike weights for all models containing each predictor.

Predictors in model						k	AIC <sub>c</sub>	ΔAIC <sub>c</sub>	Akaike weight
ck. age					numcks	6	77.74	0.00	0.126
ck. age						5	77.94	0.20	0.114
ck. age		dist			numcks	7	78.98	1.24	0.068
ck. age		dist				6	79.35	1.61	0.056
ck. age			time			6	79.35	1.61	0.056
ck. age	trials				numcks	7	79.57	1.83	0.050
ck. age	trials					6	79.88	2.14	0.043
ck. age				p. age	numcks	7	79.95	2.21	0.042
ck. age		dist	time		numcks	8	80.01	2.27	0.040
ck. age				p. age		6	80.07	2.33	0.039
ck. age	trials		time		numcks	8	80.59	2.85	0.030
ck. age	trials	dist			numcks	8	80.67	2.93	0.029
ck. age		dist	time			8	80.70	2.96	0.029
ck. age			time	p. age	numcks	8	81.08	3.34	0.024
ck. age	trials	dist				7	81.18	3.44	0.022
ck. age		dist		p. age	numcks	8	81.23	3.49	0.022
ck. age	trials		time			7	81.25	3.51	0.022
ck. age		dist		p. age		7	81.44	3.70	0.020
ck. age			time	p. age		7	81.47	3.73	0.019
ck. age	trials	dist	time		numcks	9	81.58	3.84	0.018
ck. age	trials			p. age	numcks	8	81.82	4.08	0.016
ck. age	trials			p. age		7	82.01	4.27	0.015
(Intercept only)						4	87.72	9.99	0.001
0.98	0.32	0.37	0.30	0.27	0.51				



Table A4. Model selection for predictors of tendency for parent to exhibit the penguin dance. Models listed are those with an Akaike weight greater than 0.015 and the intercept-only model. Last row shows sums of Akaike weights for all models containing each predictor.

Predictors in model					k	AIC <sub>c</sub>	ΔAIC <sub>c</sub>	Akaike weight
	trials	time	sex		7	110.68	0.00	0.089
	trials		sex		6	111.42	0.74	0.062
ck. age	trials	time	sex		8	111.64	0.96	0.055
	trials	time			6	112.12	1.44	0.043
ck. age			sex		6	112.28	1.60	0.040
ck. age		time	sex		7	112.32	1.64	0.039
	trials				5	112.77	2.09	0.031
	trials	dist	sex		7	113.35	2.67	0.023
ck. age	trials		sex	numcks	8	113.37	2.69	0.023
ck. age	trials	time	sex	numcks	9	113.47	2.79	0.022
ck. age	trials	time			7	113.48	2.80	0.022
ck. age	trials	dist	time	sex	9	113.63	2.95	0.020
ck. age	trials				6	113.64	2.96	0.020
ck. age	trials	time	sex	who	9	113.69	3.01	0.020
ck. age	trials	dist	sex		8	113.73	3.05	0.019
ck. age	trials	time	p. age	sex	9	113.85	3.17	0.018
ck. age	trials		sex		7	113.91	3.23	0.018
ck. age	trials		sex	who	8	113.96	3.28	0.017
ck. age	trials		p. age	sex	8	113.98	3.30	0.017
	trials	dist	time		7	113.99	3.31	0.017
	trials	time		numcks	7	114.00	3.32	0.017
	trials	time		who	7	114.18	3.50	0.015
	trials	time	p. age		7	114.21	3.53	0.015

(Intercept  
only)

4 117.60 6.92 0.003

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0.60 0.87 0.2 0.53 0.16 0.60 0.17 0.19