

TABLE I

REPEATED MEASURES ANALYSIS OF COVARIANCE: EFFECTS OF PET OWNERSHIP, EXPERIENCE WITH ROBOTS, AND ROBOT VS. PERSON APPROACH UPON MINIMUM DISTANCE BETWEEN PERSON AND ROBOT

	Sources of Variance for Minimum Proxemic Distance	Sum of Squares	df*	Mean Square	F
within	Robot vs. person approaches	0.002	1	0.002	0.30
	Robot vs. person approaches x Pet ownership	0.000	1	0.000	0.00
	Robot vs. person approaches x Robot experience	0.001	1	0.001	0.13
	Error	0.202	27	0.007	
between	Pet ownership	0.035	1	0.035	1.72
	Robot experience	0.119	1	0.119	5.60**
	Error	0.621	27	0.022	

\*  $df$  = Degrees of Freedom

\*\*  $p < .05$

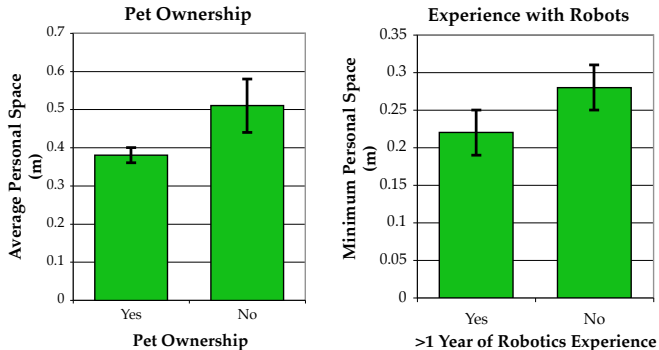


Fig. 3. Personal experience influences on proxemic behaviors with robots. The left-hand chart shows that participants who had owned a pet at some point in their lives were comfortable at closer average distances to the robot than those who had never owned a pet. The right-hand chart shows that robotics experience also correlates with smaller comfortable distances.