# Do the personalities of cohabitating dogs influence their welfare?

#### Jordan G. Smith & Sarah Krichbaum

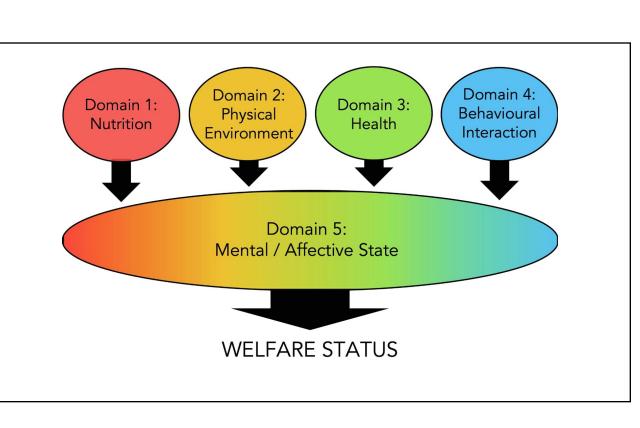


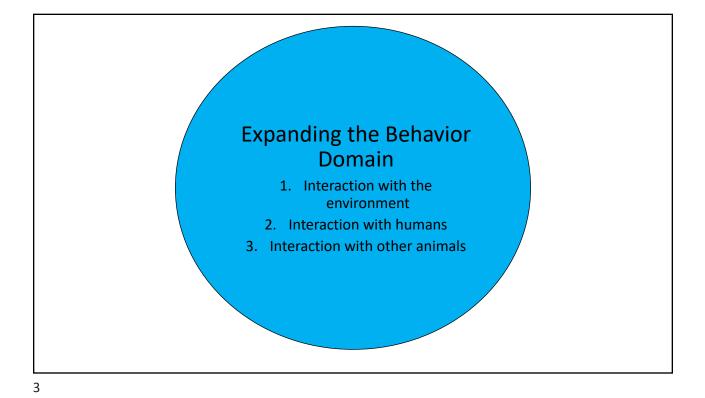
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Canine Performance Sciences

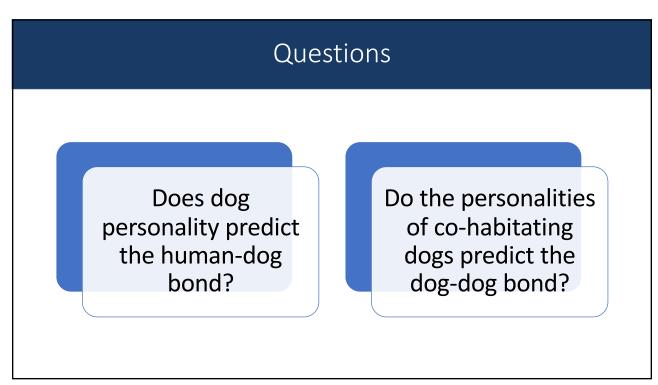


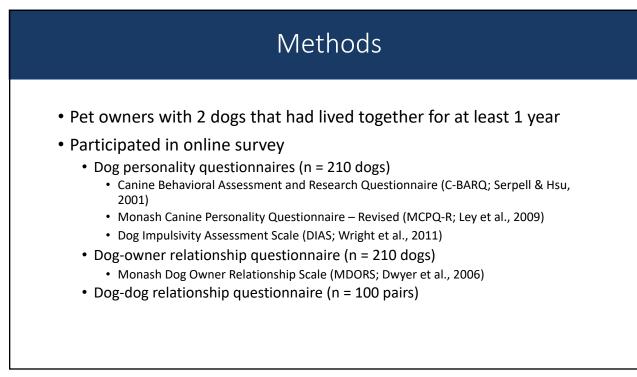










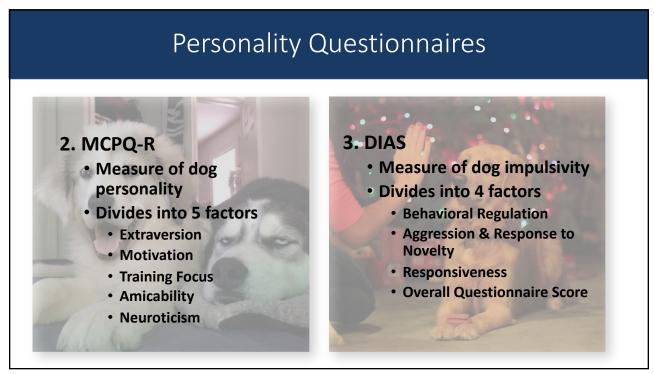


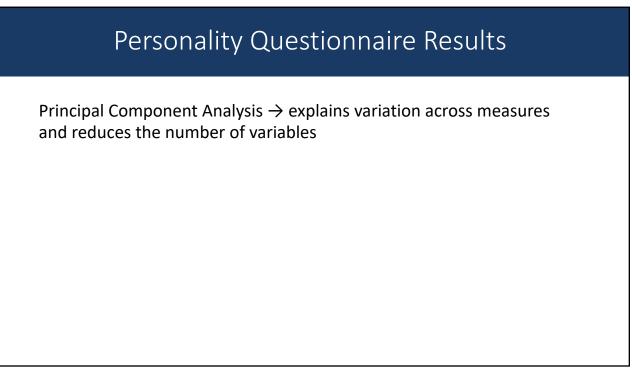
### Demographics

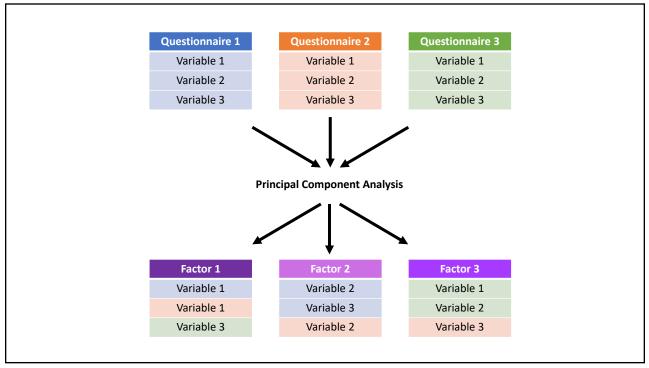
Individual D	ogs (n = 210)
Age (in years)	6.55
Years with Owner	5.92
Sex	104 Male 106 Female
Neuter Status	176 Neutered 34 Intact

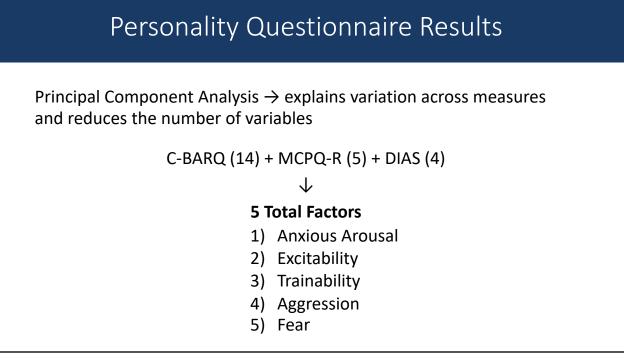
Dog Pairs	(n = 100)
Age Gap (in years)	4.17
Years Lived Together	3.92
Sex	25 Male Pairs 25 Female Pairs 50 Mixed Pairs
Neuter Status	74 Neutered Pairs 6 Intact Pairs 20 Mixed Pairs

	Pers	sonality Qu	lestionnaii	res
• [	BARQ Measure of dog be Divides into 14 fact	•	ament	
	Trainability	Dog-Directed Aggression	Dog-Directed Fear	Separation-Related Behavior
	Chasing	Stranger-Directed Aggression	Stranger-Directed Fear	Attachment or Attention-Seeking
	Energy	Owner-Directed Aggression	Nonsocial Fear	Touch Sensitivity









	Touch Sensitivity (C-BARQ)	1
	Owner Aggression (C-BARQ)	1
	Stranger Aggression (C-BARQ)	1
	Excitability (C-BARQ)	1
	Nonsocial Fear (C-BARQ)	1
	Rival (C-BARQ)	1
	Separation (C-BARQ)	1
	Dog Fear (C-BARQ)	1
ous Arousal –	Dog Aggression (C-BARQ)	1
	Stranger Fear (C-BARQ)	1
	Attachment (C-BARQ)	1
	Overall Questionnaire Score (DIAS)	1
	Aggression (DIAS)	1
	Behavioral Regulation (DIAS)	1
	Neuroticism (MCPQ-R)	1
	Energy (C-BARQ)	1
	Amicability (MCPQ-R)	4



Excitability →	Responsiveness (DIAS)	1
	Energy (C-BARQ)	1
	Extraversion (MCPQ-R)	1
	Training Focus (MCPQ-R)	1
	Trainability (C-BARQ)	1
	Aggression (DIAS)	$\downarrow$
	Stranger Fear (C-BARQ)	4
	Nonsocial Fear (C-BARQ)	$\downarrow$
	Excitability (C-BARQ)	1
	Neuroticism (MCPQ-R)	4
	Overall Questionnaire Score (DIAS)	<b>Λ</b>



# Behavioral Regulation (DIAS) ↓ Overall Questionnaire Score (DIAS) ↓ Trainability (C-BARQ) ↑ Training Focus (MCPQ-R) ↑ Owner Aggression (C-BARQ) ↑ Amicability (MCPQ-R) ↑ Extraversion (MCPQ-R) ↓



# Aggression $\rightarrow$

Amicability (MCPQ-R)	$\mathbf{+}$
Aggression (DIAS)	1
Trainability (C-BARQ)	1
Training Focus (MCPQ-R)	1
Stranger Fear (C-BARQ)	1
Separation (C-BARQ)	$\downarrow$
Stranger Aggression (C-BARQ)	1



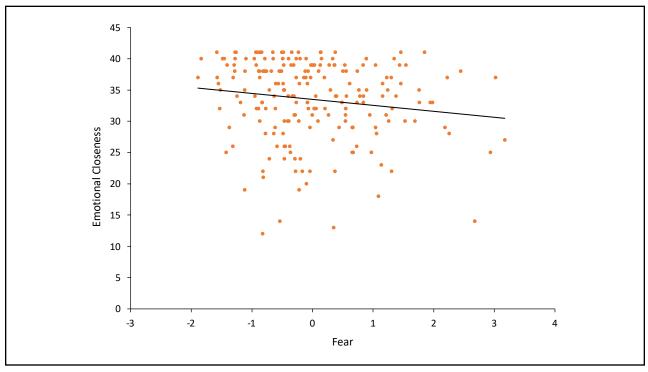
Fear →	Neuroticism (MCPQ-R)Dog Aggression (C-BARQ)Nonsocial Fear (C-BARQ)Stranger Aggression (C-BARQ)Attachment (C-BARQ)Rival (C-BARQ)	↑ ↓ ↑ ↓ ↓ ↓
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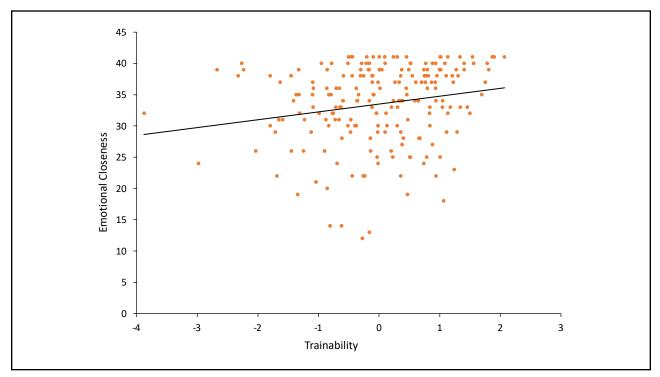
# Dog-Owner Relationship Questionnaire

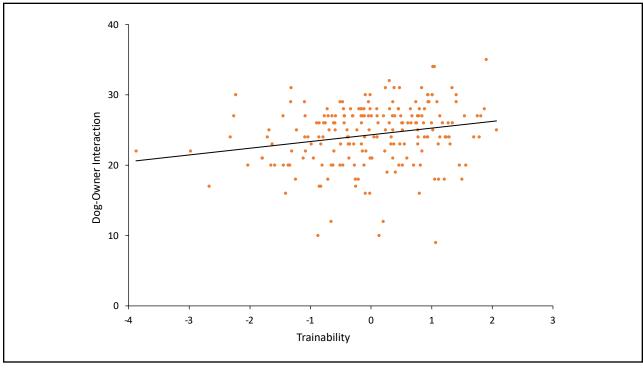
- MDORS
  - Measures relationship between a dog and its owner
  - Divides into 3 factors
    - Dog-Owner Interaction
    - Perceived Emotional Closeness
    - Perceived Costs



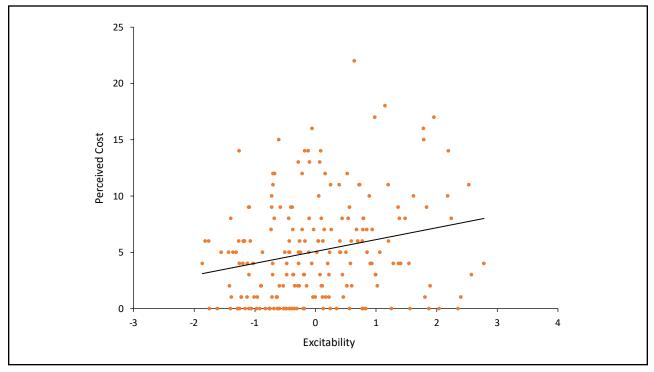


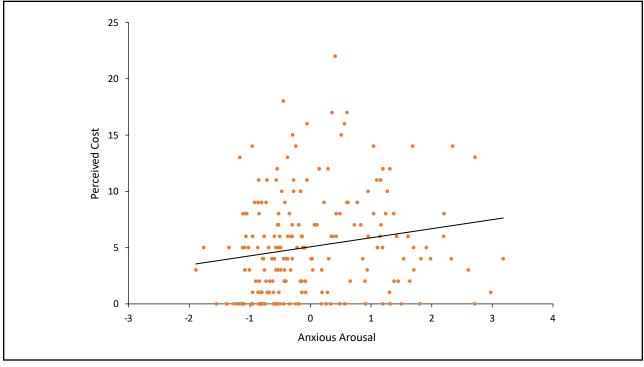




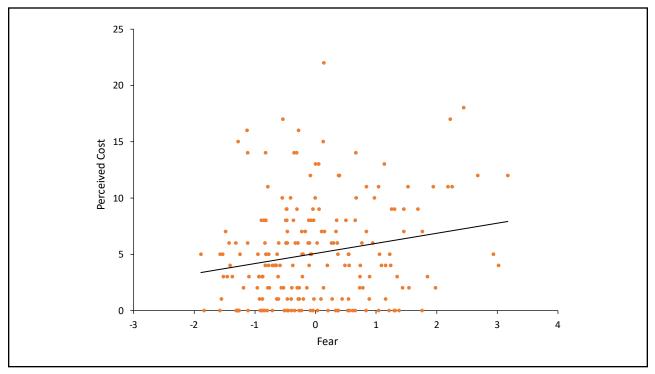


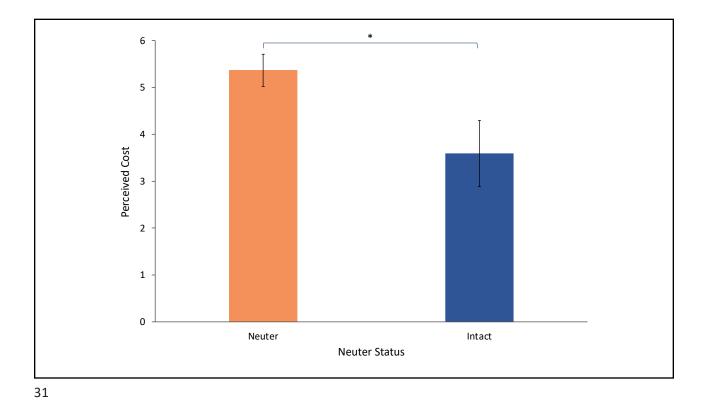












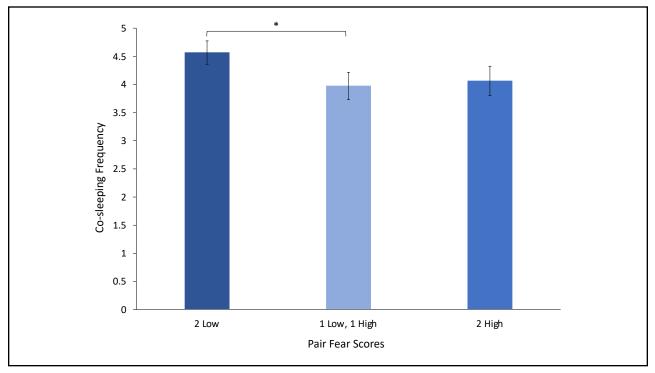
## Summary of Dog-Owner Results

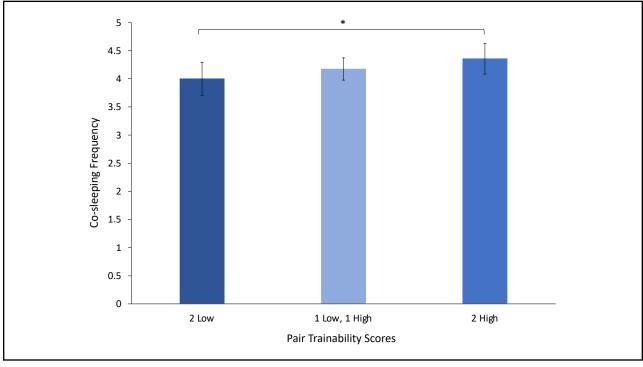
- 1.  $\downarrow$  Fear and  $\uparrow$  Trainability =  $\uparrow$  Emotional Closeness
- 2.  $\uparrow$  Trainability =  $\uparrow$  Dog-Owner Interaction
- 3.  $\uparrow$  Anxious Arousal,  $\uparrow$  Excitability, and  $\uparrow$  Fear =  $\uparrow$  Perceived Cost
- 4. Neutered dogs have  $\uparrow$  Perceived Cost than Intact dogs

# Dog-Dog Relationship Questionnaire

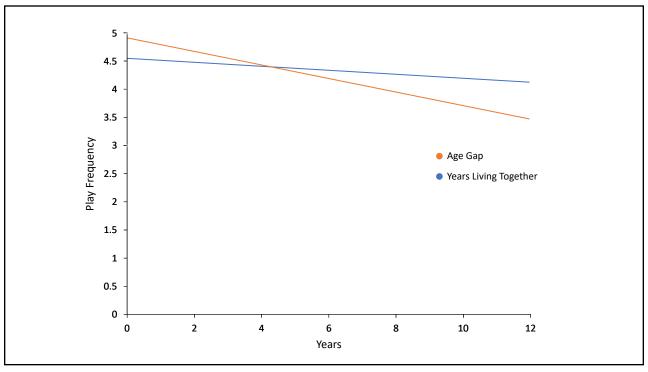
- Evaluate the relationship quality between cohabitating dogs
  - Frequency of behaviors (1 = never → 5 = once a day)
    - Co-feeding
    - Co-sleeping
    - Play
    - Aggressive Interactions
    - Mounting

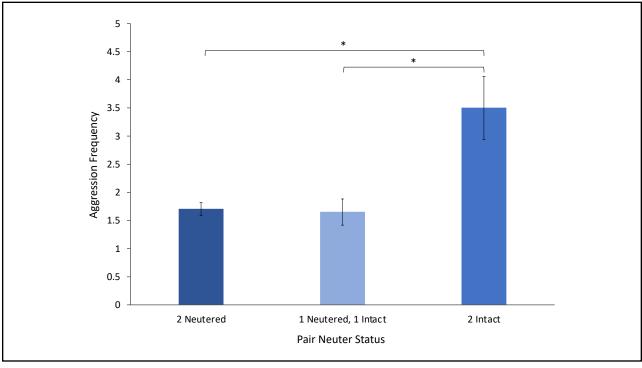




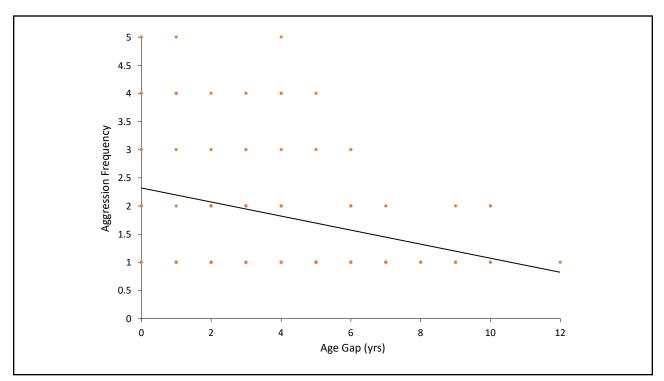


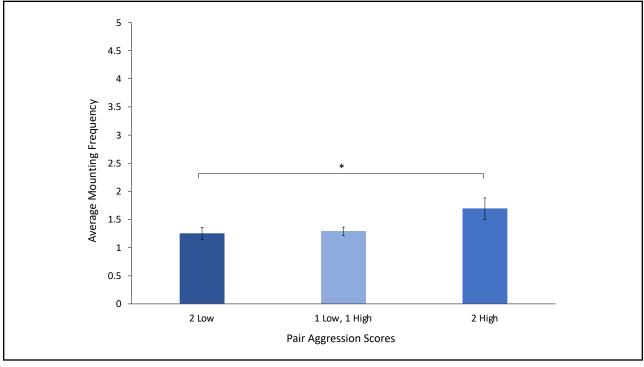


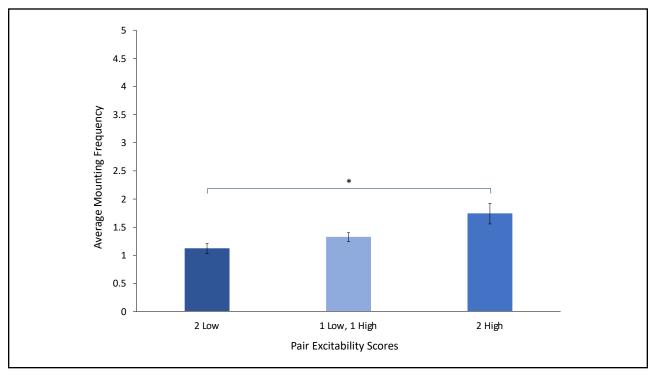


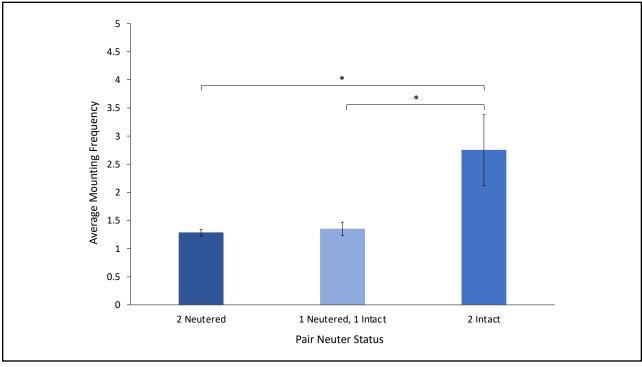












#### Summary of Dog-Dog Results

- 1. 2  $\downarrow$  Fear dogs and 2  $\uparrow$  Trainability dogs =  $\uparrow$  Co-sleeping
- 2.  $\downarrow$  Age Gap and  $\downarrow$  Years Living Together =  $\uparrow$  Play
- 3.  $\downarrow$  Age Gap =  $\uparrow$  Aggressive Interactions
- 4. 2  $\uparrow$  Aggression and 2  $\uparrow$  Excitability dogs =  $\uparrow$  Mounting
- 5. 2 Intact dogs =  $\uparrow$  Aggressive Interactions &  $\uparrow$  Mounting

#### Implications

- 1. Consider a dog's personality before purchase or adoption
- 2. Consider your current dog's personality before purchase or adoption of a new dog
- 3. When a dog-human or dog-dog issue arises think about which factors may be creating that issue before deciding how to fix them

