# Do the personalities of cohabitating dogs influence their welfare?

#### Jordan G. Smith & Sarah Krichbaum

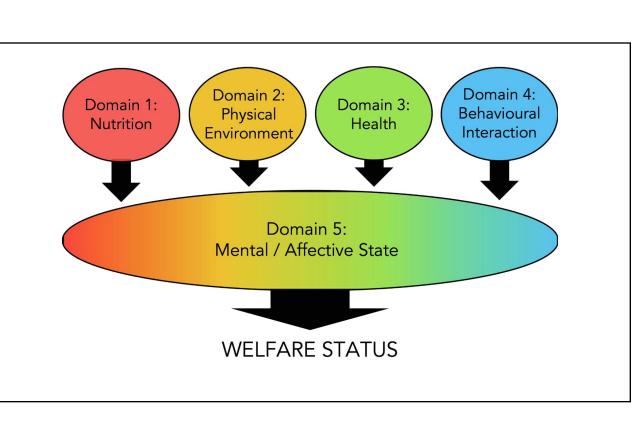


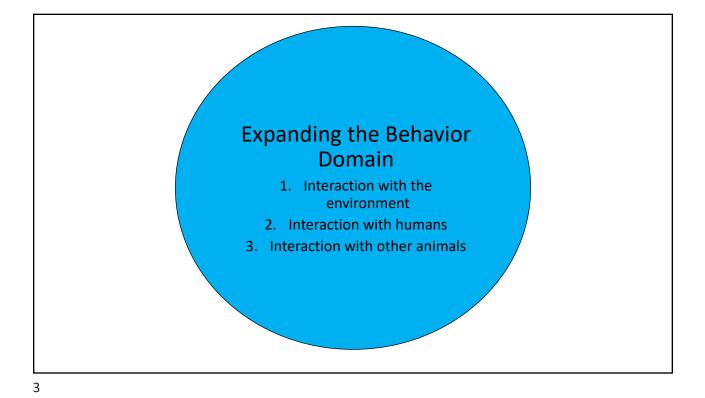
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Canine Performance Sciences

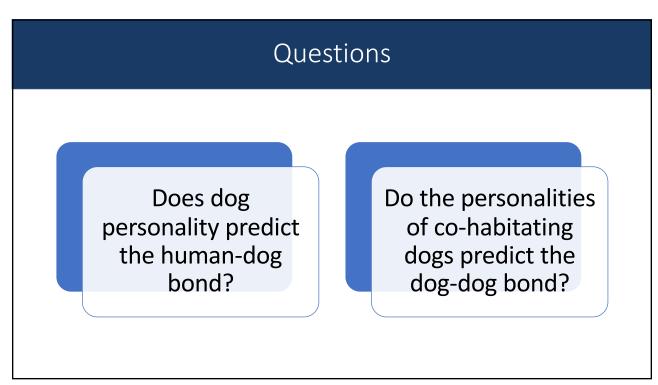


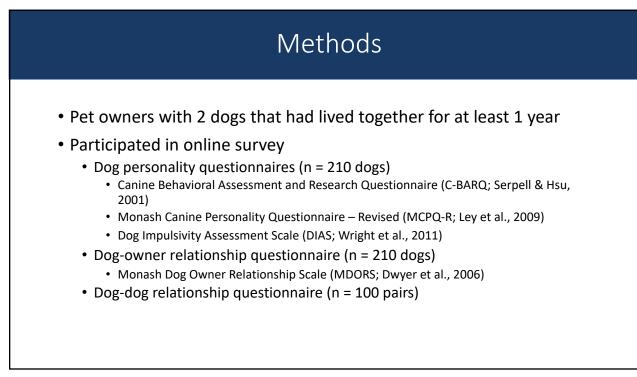










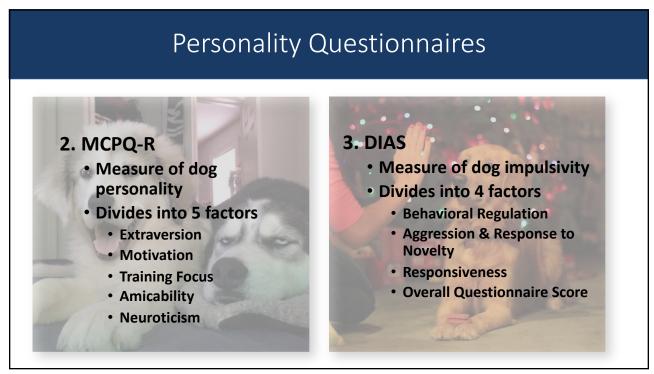


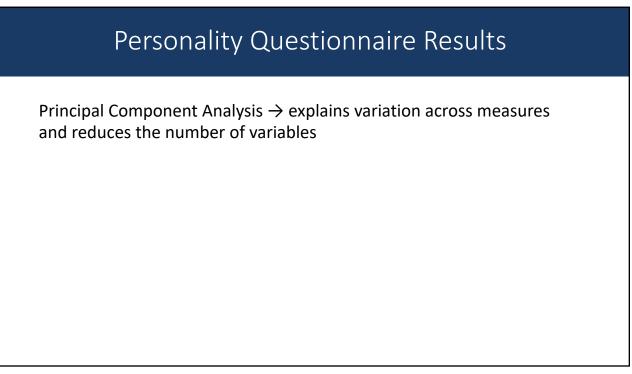
### Demographics

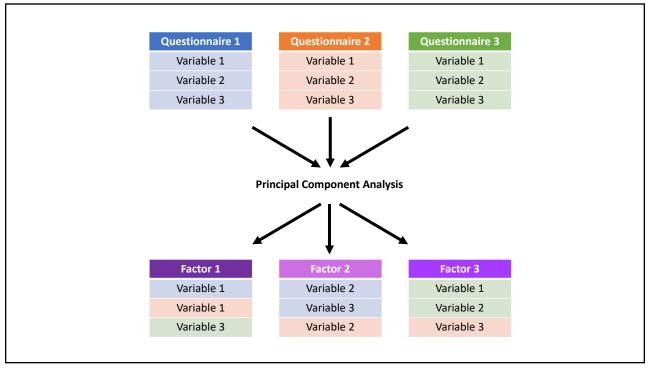
| Individual D     | ogs (n = 210)             |
|------------------|---------------------------|
| Age (in years)   | 6.55                      |
| Years with Owner | 5.92                      |
| Sex              | 104 Male<br>106 Female    |
| Neuter Status    | 176 Neutered<br>34 Intact |

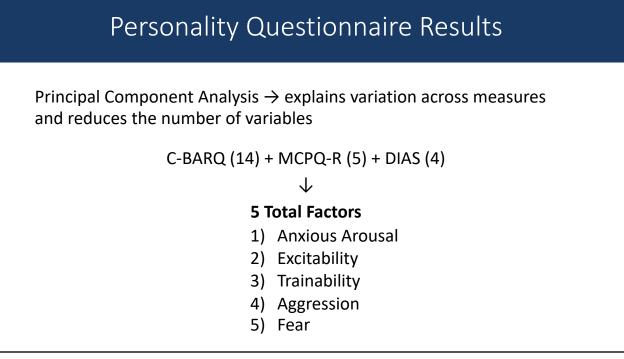
| Dog Pairs            | (n = 100)   |
|----------------------|---|
| Age Gap (in years)   | 4.17  |
| Years Lived Together | 3.92  |
| Sex                  | 25 Male Pairs<br>25 Female Pairs<br>50 Mixed Pairs    |
| Neuter Status        | 74 Neutered Pairs<br>6 Intact Pairs<br>20 Mixed Pairs |

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



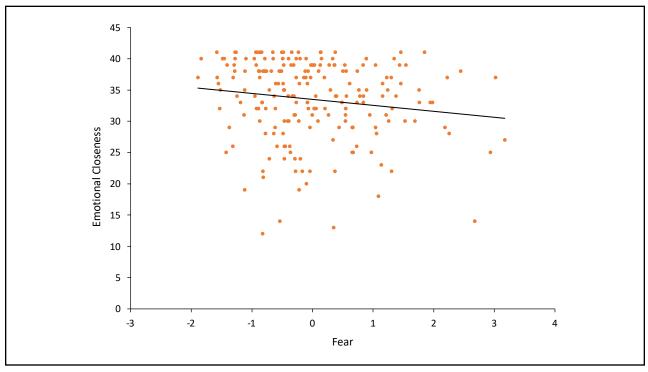
| Fear → | Neuroticism (MCPQ-R)Dog Aggression (C-BARQ)Nonsocial Fear (C-BARQ)Stranger Aggression (C-BARQ)Attachment (C-BARQ)Rival (C-BARQ) | ↑<br>↓<br>↑<br>↓<br>↓<br>↓ |
|--------|---|----------------------------|
|--------|---|----------------------------|



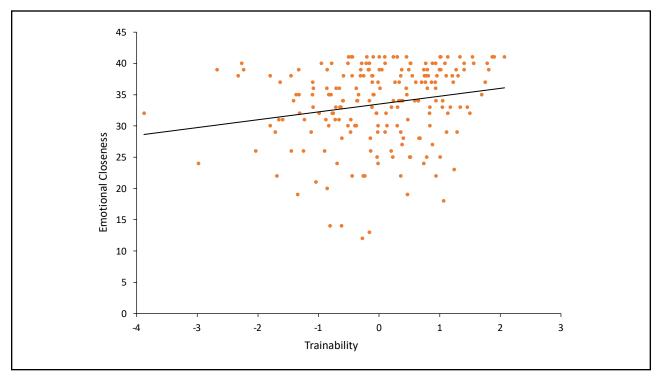
# Dog-Owner Relationship Questionnaire

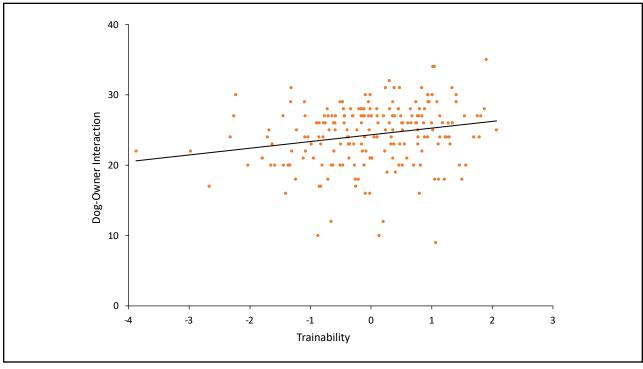
- MDORS
  - Measures relationship between a dog and its owner
  - Divides into 3 factors
    - Dog-Owner Interaction
    - Perceived Emotional Closeness
    - Perceived Costs



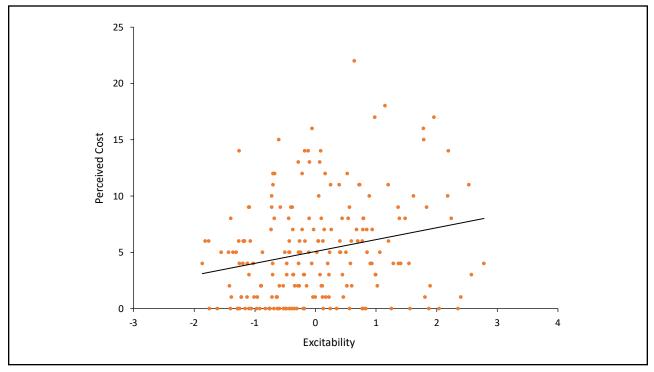


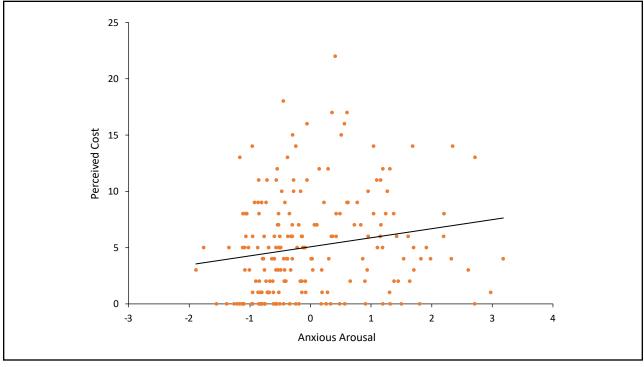




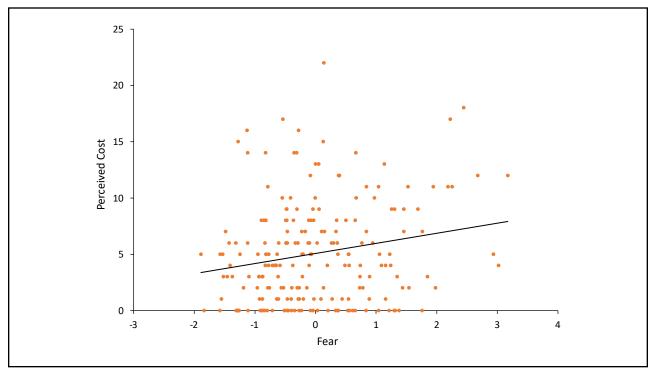


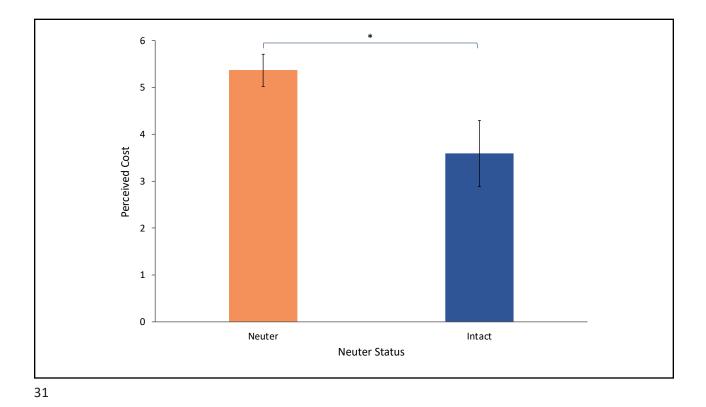












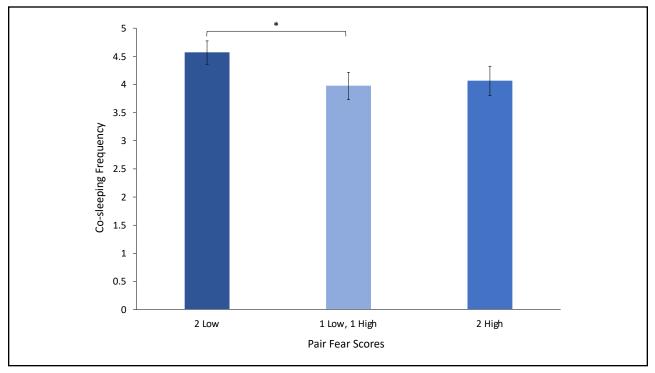
## Summary of Dog-Owner Results

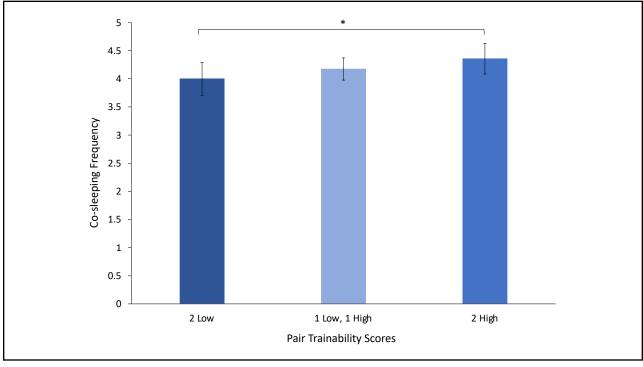
- 1.  $\downarrow$  Fear and  $\uparrow$  Trainability =  $\uparrow$  Emotional Closeness
- 2.  $\uparrow$  Trainability =  $\uparrow$  Dog-Owner Interaction
- 3.  $\uparrow$  Anxious Arousal,  $\uparrow$  Excitability, and  $\uparrow$  Fear =  $\uparrow$  Perceived Cost
- 4. Neutered dogs have  $\uparrow$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

# Dog-Dog Relationship Questionnaire

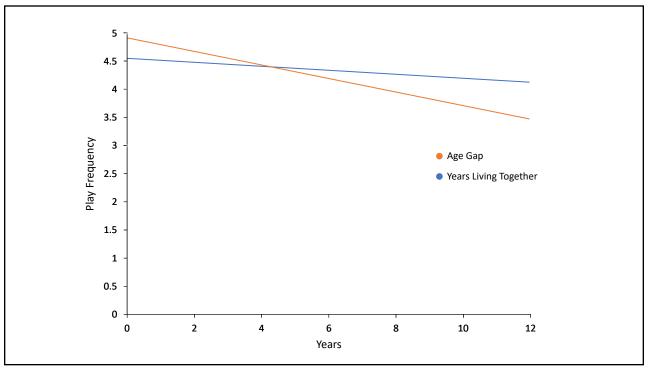
- Evaluate the relationship quality between cohabitating dogs
  - Frequency of behaviors (1 = never → 5 = once a day)
    - Co-feeding
    - Co-sleeping
    - Play
    - Aggressive Interactions
    - Mounting

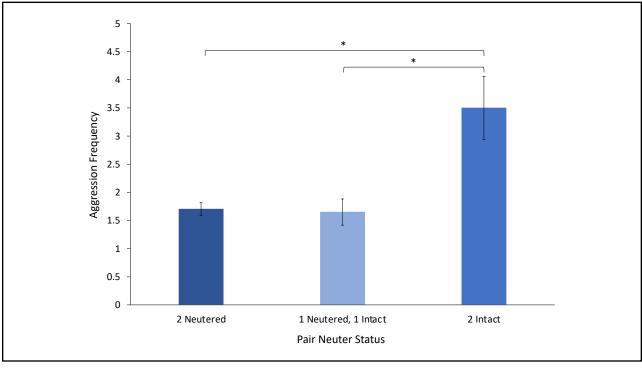




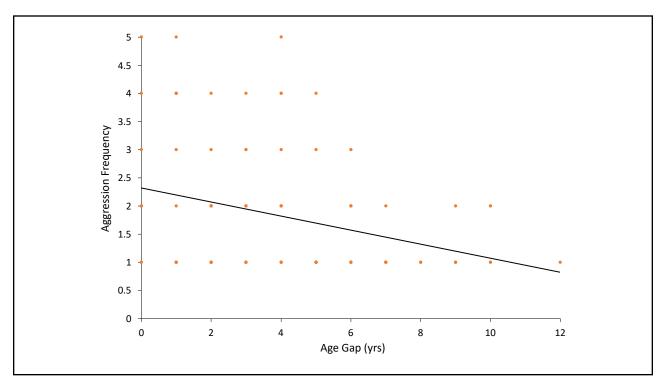


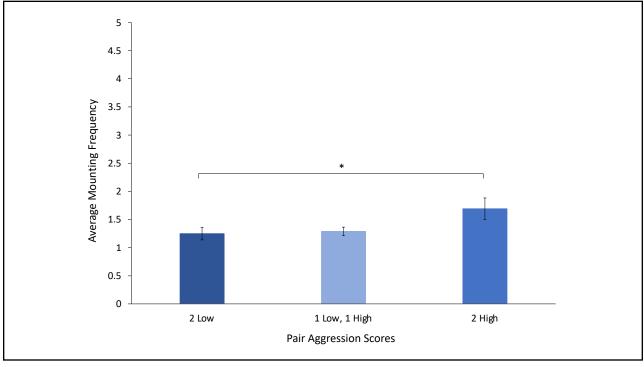


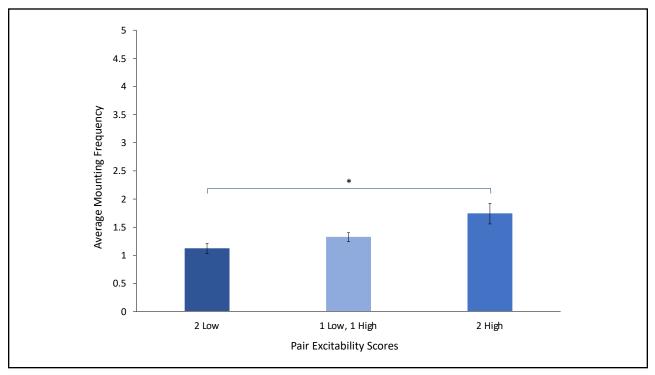


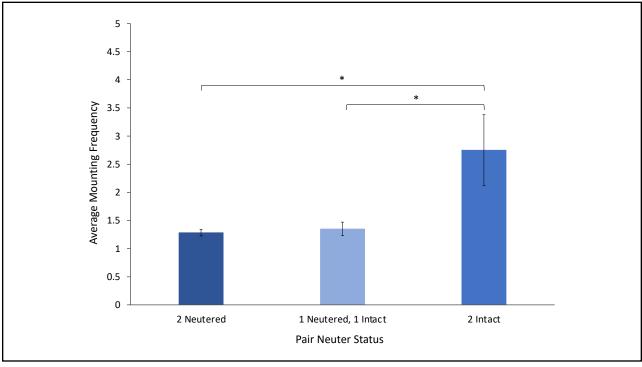












#### Summary of Dog-Dog Results

- 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

