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HUMAN CALMING OF DOG AROUSAL

A thesis presented in partial fulfilment of the requirements for the degree of

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**ABSTRACT**

Humans, by their behaviour, may wittingly or unwittingly increase arousal that triggers attacks in dogs. Equally their behaviour may have a calming effect. Based on evidence in scientific literature, and from recommendations in other writings, the experimenter approached four dogs in one of three ways. (1) Head averted while crouching (Head Turn); (2) eye blinking while crouching (Eye Blink); and (3) direct stare while standing (Direct Stare). The effects of these approaches on arousal levels in the dogs were measured. Dog arousal (an indicator of how likely the dog is to aggress) was assessed from observations of six components of dog behaviour, using scales that measured submission and fear, through relaxation and calmness, to dominance. The presence of either submission or dominance can increase the likelihood of attack. The effect of the three approaches was tested using a small-N alternating treatments design, which involved an initial baseline phase, an alternating treatments phase, a preferred treatment phase, and reversal to baseline. A further three phases were run to assess the effect of approaches on the dogs behaviour by different experimenters. Head Turn was most effective in reducing either submissive or dominant arousal in the dogs, while Direct Stare elicited the most arousal. Eye Blink produced the most variable results but was found to have some calming effect on the dogs. Differences in individual experimenters were not found to have a large effect on dog arousal. Since the dogs displayed little dominance aggression, it is not known whether these treatments are appropriate for calming this type of behaviour. In addition to the traditional methods of analysis a prototype analysis tool (PAC) was employed as an exploratory technique. The findings from PAC showed its potential for improving analysis of behaviour and provided support for the data obtained from the more traditional analysis.
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## TABLE OF CONTENTS

**ABSTRACT** .................................................................................................................. II

**ACKNOWLEDGEMENTS** ............................................................................................... III

**TABLE OF CONTENTS** .................................................................................................. IV

**LIST OF TABLES** ........................................................................................................ VII

**LIST OF FIGURES** ....................................................................................................... VII

**LIST OF APPENDICES** ................................................................................................ IX

### CHAPTER 1: INTRODUCTION ......................................................................................... 1

1.1. **Dog Attacks on Humans** ....................................................................................... 1
1.2. **Arousal** .................................................................................................................. 2
1.3. **Aggression** ............................................................................................................. 2
1.4. **Social Behaviour in the Dog and Wolf** ................................................................ 5
1.5. **Communication in Dogs** .................................................................................... 8
   1.5.1. **Auditory** ......................................................................................................... 9
   1.5.2. **Olfactory** ...................................................................................................... 10
   1.5.3. **Visual** .......................................................................................................... 10
1.6. **Calming Signals** ................................................................................................... 11
1.7. **Human Behaviour and Dog/Wolf Behaviour** ..................................................... 17
1.8. **Dog-Human Communication** .............................................................................. 18
1.9. **Development of Socialisation** ............................................................................. 21
1.10. **Victim Behaviour and Characteristics** ............................................................... 22
1.11. **Outline of Hypotheses** ...................................................................................... 25
1.12. **Research Design** ............................................................................................... 25
1.13. **PAC Analysis** ..................................................................................................... 27
1.14. **Summary** ............................................................................................................ 27

### CHAPTER 2: METHOD .................................................................................................. 28

2.1. **Participants** .......................................................................................................... 28
2.2. **Setting** .................................................................................................................. 28
2.3. **Independent Variables** ....................................................................................... 29
   2.3.1. **Head Turn** .................................................................................................... 30
   2.3.2. **Eye Blinking** ............................................................................................... 30
   2.3.3. **Direct Stare** ............................................................................................... 30
2.4. **Dependent Variables** ......................................................................................... 30
2.5. **Experimental Design and Procedure** .................................................................. 33
   2.5.1. **Baseline 1 (B1)** ............................................................................................ 34
   2.5.2. **Alternating Treatments (AT)** ...................................................................... 34
   2.5.3. **Preferred Treatment 1 (PT1)** ..................................................................... 34
   2.5.4. **Baseline 2 (B2)** .......................................................................................... 34
   2.5.5. **Preferred Treatment 2 (Across Experimenters) (PT2)** ............................. 34
   2.5.6. **Baseline 3 (Replication of Effects across Experimenters) (B3)** ............... 35
CHAPTER 3: RESULTS ........................................................................................................43

3.1. BASELINE 1 PHASE (B1) .................................................................................. 43
3.2. ALTERNATING TREATMENTS PHASE (AT) .......................................................... 56
  3.2.1. Direct Stare Treatment ............................................................................. 56
  3.2.2. Head Turn Treatment ............................................................................. 56
  3.2.3. Eye Blink Treatment .............................................................................. 56
3.3. PREFERRED TREATMENT 1 PHASE (PT1) .......................................................... 57
3.4. BASELINE 2 PHASE (B2) .................................................................................. 57
3.5. PREFERRED TREATMENT 2 PHASE (PT2) ................................................................ 58
3.6. BASELINE 3 PHASE (B3) .................................................................................. 58
3.7. PREFERRED TREATMENT 3 (PT3) ....................................................................... 58
3.8. YAWNING AND LIP LICKING ........................................................................... 58
3.9. BEHAVIOUR OF DOGS ACROSS THE EXPERIMENT ............................................. 59
3.10. PAC ANALYSIS .................................................................................................. 59
  3.10.1. Study Files ............................................................................................ 59
  3.10.2. Results and Interpretation .................................................................... 59

CHAPTER 4: DISCUSSION .................................................................................................. 64

4.1. MEASUREMENT OF DOG AROUSAL ..................................................................... 64
4.2. TREATMENT EFFECT ON DOG AROUSAL .......................................................... 67
4.3. EXPERIMENTER EFFECT ON DOG AROUSAL ....................................................... 69
4.4. TREATMENT EFFECTS ON INDIVIDUAL DOGS ................................................... 70
4.5. DESIGN ............................................................................................................... 71
4.6. MULTIPLE TREATMENT INTERFERENCE ................................................................ 75
4.7. PAC ANALYSIS .................................................................................................. 76
4.8. PRACTICAL IMPLICATIONS AND FUTURE DIRECTIONS ....................................... 77
4.9. LIMITATIONS ..................................................................................................... 79
4.10. SUMMARY AND CONCLUSIONS ....................................................................... 80

BIBLIOGRAPHY ............................................................................................................... 88
LIST OF TABLES

Table 1. Facial Expressions with Corresponding Motivators ........................................9
Table 2. Arousal Scores for Vocalisations Measure ......................................................32
Table 3. Vocabulary used to Develop Coding Language ..................................................39
Table 4. Examples of Coded Sentences from Behaviour Descriptions from
        Several Trials ........................................................................................................40
LIST OF FIGURES

Figure 1. Aggressive stare with lip retracting snarl, erect ears and pilo-erection......10
Figure 2. Active submission (left) and passive submission showing lateral recumbence (right) 11
Figure 3. The subordinate dog (bottom) displays a sideways body posture with head turning and avoidance of eye contact in response to agonistic posture and direct stare of the dominant dog (top)..................................13
Figure 4. Consummatory face characterised by eye closure in the wolf while eating..........................................................15
Figure 5. Consummatory face characterised by eye closure in the wolf while defecating..........................................................16
Figure 6. Ritualised greeting behaviour found in wolves and dogs. The wolf to the right shows submissive and pacifying behaviour. The wolf to the left shows dominance and acceptance..............................................17
Figure 7. Similarities in facial expressions of different animals ..........................................................20
Figure 8. A potentially dangerous situation where the boy is increasing his proximity to the fearful dog, which is trying to decrease the proximity....23
Figure 9. An expression of affection in humans that may be misinterpreted as dominance by the dog..........................................................24
Figure 10. Set up of experimental area .....................................................................................................29
Figure 11. Measures of dog arousal.........................................................................................................31
Figure 12. The PAC Modules .................................................................................................................37
Figure 13. Arousal scores for Max as measured by Tail Position.........................................................44
Figure 14. Arousal scores for George as measured by Tail Position....................................................44
Figure 15. Arousal scores for Diva as measured by Tail Position........................................................45
Figure 16. Arousal scores for Houston as measured by Tail Position................................................45
Figure 17. Arousal scores for Max as measured by Head Position.......................................................46
Figure 18. Arousal scores for George as measured by Head Position..................................................46
Figure 19. Arousal scores for Diva as measured by Head Position.......................................................47
Figure 20. Arousal scores for Houston as measured by Head Position.............................................47
Figure 21. Arousal scores for Max as measured by Ear Position.........................................................48
Figure 22. Arousal scores for George as measured by Ear Position....................................................48
Figure 23. Arousal scores for Diva as measured by Ear Position.........................................................49
Figure 24. Arousal scores for Houston as measured by Ear Position

Figure 25. Arousal scores for Max as measured by Vocalisations

Figure 26. Arousal scores for George as measured by Vocalisations

Figure 27. Arousal scores for Diva as measured by Vocalisations

Figure 28. Arousal scores for Houston as measured by Vocalisations

Figure 29. Arousal scores for Max as measured by Yawning

Figure 30. Arousal scores for George as measured by Yawning

Figure 31. Arousal scores for Diva as measured by Yawning

Figure 32. Arousal scores for Houston as measured by Yawning

Figure 33. Arousal scores for Max as measured by Lip Licking

Figure 34. Arousal scores for George as measured by Lip Licking

Figure 35. Arousal scores for Diva as measured by Lip Licking

Figure 36. Arousal scores for Houston as measured by Lip Licking

Figure 37. Behavioural measures during trial 170, AT phase

Figure 38. Behavioural measures during trial 86, AT phase

Figure 39. Behavioural measures during trial 198, AT phase

Figure 40. Summary schema of body markings associated with social behaviour (aggression, facial expressions and social investigation) in a dog
LIST OF APPENDICES

APPENDIX 1. Canine Postural Body Expressions ......................................................... 82
APPENDIX 2. Consent Form ....................................................................................... 83
APPENDIX 3. Example of Check Sheets used to Record Data from Video

          Recordings using a Ten-second Time Sampling Technique ......................... 85
APPENDIX 4. Inter-Observer Agreement Measures .................................................... 86
APPENDIX 5. Intra-Observer Agreement Measures .................................................... 87