

Online Resource 1: Additional Tables and Figures

Journal: Animal Cognition

Title: 'Should I stay or should I go?' – Initiation of joint travel in mother-infant dyads of two chimpanzee communities in the wild

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Table S1 Action types produced to initiate carries in chimpanzee mother-infant dyads identified in this study and corresponding behavioural patterns of the Mahale chimpanzees [46]

| Action | Definition (this study) | Used by | Mahale |
|--------------------|--|---------|--------------------------|
| Tactile | | | |
| Grab [grb] | Individual grasps or tugs on limbs of another | Both | Grab |
| Hold on [hon] | Individual clings with one or both hands to fur of another | Infant | Grasp and push shoulders |
| Lift on back [lob] | Individual lifts infant on own back | Mother | Put dorsal |
| Visual | | | |
| Approach [apr] | Individual moves towards another | Both | Approach |
| Freeze [apr] | Individual pauses movement for > 2 seconds | Both | Wait for companion |
| Move away | Individual moves away from another | Both | Depart |

Table S2 Infant scan data recorded in 15-minute intervals to complement video recordings

| Recorded parameter | Levels |
|--|---|
| 1. General | infant ID, date & time, visibility |
| 2. Body posture | cling ventral, cling dorsal, cling side, ride, sit, lie (on conspecific), climb, hang, walk, stand bipedal/quadrupedal, run |
| 3. Activity | breast-feed, feed, rest, play, groom, being groomed, self-groom, exploration, being carried, follow mother, explore, observe others |
| 4. Play type (if applicable) | solitary play, object play (solitary), object play (social), rough play, soft play |
| 5. Object involved type (if applicable) | leaf, stone, stick, bark, fruit(s), plant material, termite mould, liane, water, wood, other |
| 6. Context | feed, rest, play, groom, travel, aggression, patrol, inter-group encounter |
| 7. Interaction partner(s) | ID and relationship of/to conspecific(s) |
| 8. Physical distance between mother and infant | body contact, within arm's reach, 2 arm lengths, 1-2 m, 2-5 m, 5-10 m and >10 m. |
| 9. Attentional state of mother | in visual field, 90°, 180° |
| 10. Group composition | mixed group, only adult females, family (mother and dependent offspring) |
| 11. Height & Vegetation | ground, low-storey, mid-storey, canopy open, moderate, dense |

Table S3 Dice coefficients (D_j) measuring the similarity between the gestural repertoires of individual mothers of the same or different chimpanzee group. Initials in *italics* and plain font represent the IDs of mothers from the Tai and Kanyawara groups, respectively.

| | <i>IS</i> | <i>KS</i> | <i>MB</i> | <i>SM</i> | LN | ML | OT | TG | WA | WL |
|-----------|-----------|-----------|-----------|-----------|------|------|------|------|------|------|
| <i>IS</i> | 1.00 | | | | | | | | | |
| <i>KS</i> | 0.73 | 1.00 | | | | | | | | |
| <i>MB</i> | 0.79 | 0.69 | 1.00 | | | | | | | |
| <i>SM</i> | 0.70 | 0.67 | 0.67 | 1.00 | | | | | | |
| LN | 0.56 | 0.63 | 0.55 | 0.43 | 1.00 | | | | | |
| ML | 0.70 | 0.67 | 0.67 | 0.63 | 0.71 | 1.00 | | | | |
| OT | 0.80 | 0.70 | 0.76 | 0.67 | 0.63 | 0.76 | 1.00 | | | |
| TG | 0.74 | 0.80 | 0.77 | 0.70 | 0.57 | 0.61 | 0.79 | 1.00 | | |
| WA | 0.83 | 0.82 | 0.86 | 0.80 | 0.67 | 0.70 | 0.80 | 0.89 | 1.00 | |
| WL | 0.70 | 0.76 | 0.81 | 0.63 | 0.75 | 0.53 | 0.67 | 0.77 | 0.87 | 1.00 |

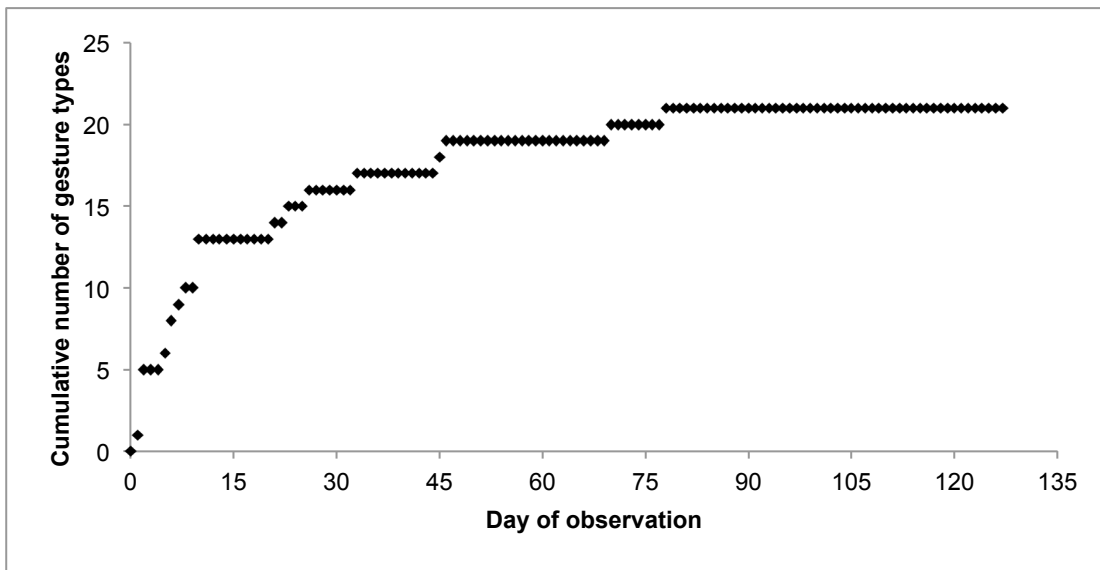


Figure S1 Cumulative gestural repertoire used in joint travel interactions plotted against observation time (days).