Lecture 1: Non-verbal communication

Non-verbal behaviour: communicative actions that don't have verbal content.

Non-verbal communication (may reveal unconscious thoughts/feelings):

- Encoding: sending/transmitting non-verbal cues
- Decoding: receiving/retrieving non-verbal cues.

Types of non-verbal behaviour:

- Body posture
- Eye gaze
- Facial expressions
- Proxemics (how closely we position ourselves to others)
- Gestures
- Haptic (movements)

Body Posture

➤ Body Posture communicates information to others (research typically looks at perceptions of **dominance**)

EXPERIMENT: Schwartz et.al (1982) had participants rate a standing figure to be more dominant that a seated figure

EXPERIMENT: Rule et.al (2012) demonstrated that participants identify dominance or submission in a figure based on body posture and head posture within 40ms of exposure.

EXPERIMENT: Koppensteiner et.al (2016) Politicians converted to stick figures were rated more dominance when they used expansive movements/gestures both vertically and horizontally.

- Expansive movements decrease perceived trustworthiness but increase perceived dominance.
- Body Posture communicates information

EXPERIMENT: Petty and Brinol (2009) researched how body posture can affect inferences about one's self. Participants were asked to list three positive/negative personal traits about professional future placed in either a confident position (erect back) or a doubtful position (slouched). RESULTS: indicated that participants in the confident position were able to list twice as many positive statements. With attributions of self-attitude raising from 5.5 to 7.8.

Body Posture and memory retrieval

Memory is better retrieved when BP is the same at formation and retrieval.

EXPERIMENT: Dijkstra et.al (2006) analysed the reaction time to generate memory recall 14 days after formation in either a congruent (same) or incongruent (different) body positions. RESULTS: indicated that memory recall was faster and more accurate when in congruent vs. incongruent body positions.

- This effect occurs in all age groups but is stronger for young adults that older individuals.

Body Posture and romantic attraction

EXPERIMENT: Vacharkulksemsuk et.al (2016) analysed dating profiles that featured expansive vs. contractive postures and found they were more likely to receive a match this is likely due to perceived dominance.

Body Posture and testosterone

TED talk by Amy Cuddy claimed that 'power posing' is shown to increase testosterone.

- Statement received criticism about experiments research and reliability.

EXPEIRMENT: Jones et.al (2017) tested whether 'power posing' has an effect on testosterone levels. RESULTS: indicated that there was not a statistically significant difference on any behavioural or hormonal measure.

Body Posture across cultures

EXPERIMENT: Park et. al (2013) measured self-reported power when placed in 4 different positions; expansive hands spread on desk, expansive upright sitting position, expansive feet on desk and, constricted sitting. RESULTS: indicated that for the expansive feet on desk pose participants born in the U.S reported high self-reported power while participants born in East Asia self-reported this pose low (seen as disrespectful)

- Indicating that some of these postures are learnt rather than innate.

Eye Gaze

EXPERIMENT: Rogers et.al (2018) used head-mounted eye trackers to analyses whether people look at another's eyes or face when having a 4 minute 'getting acquainted' conversation. RESULTS: indicated that participants subjectively perceived making eye-contact for 70% of the conversation. Actual data reveals that mutual eye contact occurred 0-45% of the conversation (very brief instances) while mutual face gaze occurred 60% of the time for longer periods (approx. 2.2 seconds)

- Non-face gaze occurred 29% when talking and 10% when listening.

Facial Expressions (smiles)

EXPERIMENT: Gunnery et.al (2013) analysed whether participants could determine the difference between a genuine or fake smile. First participants were asked to fake 'genuine' smiles and then imitate a Duchenne smile (activates the 3 core facial muscles for smiling) from photograph. Then participants rated other participants photos on genuineness. RESULTS: indicated that genuineness correlated with deliberately produced Duchenne smiles.

There are 3 facial muscles involved in smiling

- Corrugator supercilii (dimples above the eyebrow)

- Orcularis oculi (muscles at the corner of the eye- smile lines)
- Zygomaticus major (muscles in cheek that curves the lips)

EXPERIMENT: Krumhuber et.al (2014) analysed whether individuals mimic other people's expressions (smile mimicry). Participants watched a short film that either featured genuine or fake smiles and the own smile activity was recorded. RESULTS: indicated that features of genuine smiles elicited more smile mimicry than fake smiles.

- Rated least effective to most to determine simile mimicry: Zygomaticus major, orbicularis oculi then, corrugator supercilii.

Proxemics (Proximity to another)

Proxemics could be a subtle measure of attraction, comfort, or interaction openness.

EXPERIMENT: Marinovic et.al (2017) aimed to determine proxemics following watching a video featuring ostracism. Participants were asked to watch a video that featured or did not feature ostracism then they were measured on how closely they close to sit in relation to the experimenter. RESULTS: those that views ostracism chose to sit further way from the experimenter.

EXPERIMENT: Kuntsman et.al 2016) identified that white participants who felt financially threatened chose to sit further way from a low SES target than those who were not threatened.

- Therefore, proxemics can be used as a measure of prejudice towards outgroup members

Gestures

Gestures = non-verbal bodily communication that are usually symbolic, but commonly understood (i.e. digitus impudics- middle finger).

EXPERIMENT: Chandler and Schwarz (2009) analyses the effect different gestures (raising middle figure, thumb, or index figure) can have on someone's perceived aggressiveness and negativity. RESULTS: for perceived aggression raising the middle finger is rated higher than raising the index finger. While for negativity, raising the thumb is less negative than raising one's index finger.

Haptic

Haptic = touch and movement are used to communicate many emotions.

EXPERIMENT: Hertenstein et.al (2009) analysed what haptics communicated emotionally. Participants were placed in pairs, the first person was asked to communicate; fear, anger, happiness, sadness, disgust, love, surprise, and sympathy through touch. Person two, would decode this touch and choose an emotion they thought was being communicated.

- Anger = hitting
- Fear = trembling
- Sadness = stroking

- Disgust = pushing
- Surprise = squeezing
- Happiness = swinging
- Love = stroking
- Sympathy = patting

EXPERIMENT: App et.al (2011) participants asked to send emotions to an imagined same-sex mannequin who was their friend and experimenters recorded the type of haptic they used (touch, face, or body). The emotions were broken down into 3 groups by the experimenters.

- Social status emotions (pride, embarrassment, guilt, and shame)
 = predominantly body.
- Survival emotions (anger, disgust, fear, happiness, and sadness)
 = predominantly face
- Intimate relation emotions (love and sympathy)= predominantly touch.