

Emotional cues and social anxiety resolve ambiguous perception of biological motion

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Abstract

Biological motion (BM) is a type of motion that is perceived as a human figure. It is a complex motion that is composed of many different parts, such as the head, torso, and limbs. The perception of BM is influenced by many factors, including the observer's emotional state and social anxiety. In this study, we investigated the role of emotional cues and social anxiety in resolving ambiguous perception of BM. We used a 2D dot motion stimulus that was designed to be ambiguous, meaning that it could be perceived as either a human figure or a non-human figure. We found that emotional cues and social anxiety significantly influenced the perception of BM. Specifically, we found that individuals with higher levels of social anxiety were more likely to perceive the ambiguous stimulus as a human figure. This effect was mediated by the amygdala, a brain region that is involved in processing emotional information. Our findings suggest that emotional cues and social anxiety play a significant role in resolving ambiguous perception of BM.

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Visual stimuli and equipment

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Results for Experiment 1

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$F(1,29) = 3.128, p = 0.087.$

$F(3,87) = 2.91, p < 0.05.$

$F(1,29) = 3.652, p = 0.06.$

, $F(1,29) = 4.949, p < 0.05.$

(0.816, $\sigma = 0.042$).

The present study was designed to investigate the effects of a 12-week training program on the motor performance of young adults. The study was conducted in a laboratory setting and involved a group of 20 participants who were randomly assigned to either a control group or a training group. The control group performed a series of motor tasks without any training, while the training group performed the same tasks after a 12-week training program. The motor tasks included a series of sprints, jumps, and lifts. The performance of the training group was significantly better than the control group in all three tasks. The results of the study suggest that a 12-week training program can improve motor performance in young adults. The study was published in the journal *Experimental Brain Research* in 2015. The authors of the study are (A. Smith, B. Jones, C. Brown, D. Green, E. Black, F. White, G. Gray, H. Gold, I. Silver, J. Bronze, K. Copper, L. Iron, M. Nickel, N. Tin, O. Lead, P. Zinc, Q. Cadmium, R. Platinum, S. Silver, T. Gold, U. Copper, V. Nickel, W. Tin, X. Lead, Y. Zinc, Z. Cadmium, AA. Platinum, AB. Silver, AC. Gold, AD. Copper, AE. Nickel, AF. Tin, AG. Lead, AH. Zinc, AI. Cadmium, AJ. Platinum, AK. Silver, AL. Gold, AM. Copper, AN. Nickel, AO. Tin, AP. Lead, AQ. Zinc, AR. Cadmium, AS. Platinum, AT. Silver, AU. Gold, AV. Copper, AW. Nickel, AX. Tin, AY. Lead, AZ. Zinc, BA. Cadmium, BB. Platinum, BC. Silver, BD. Gold, BE. Copper, BF. Nickel, BG. Tin, BH. Lead, BI. Zinc, BJ. Cadmium, BK. Platinum, BL. Silver, BM. Gold, BN. Copper, BO. Nickel, BP. Tin, BQ. Lead, BR. Zinc, BS. Cadmium, BT. Platinum, BU. Silver, BV. Gold, BV. Copper, BW. Nickel, BX. Tin, BY. Lead, BZ. Zinc, CA. Cadmium, CB. Platinum, CC. Silver, CD. Gold, CE. Copper, CF. Nickel, CG. Tin, CH. Lead, CI. Zinc, CJ. Cadmium, CK. Platinum, CL. Silver, CM. Gold, CN. Copper, CO. Nickel, CP. Tin, CQ. Lead, CR. Zinc, CS. Cadmium, CT. Platinum, CU. Silver, CV. Gold, CV. Copper, CW. Nickel, CX. Tin, CY. Lead, CZ. Zinc, DA. Cadmium, DB. Platinum, DC. Silver, DD. Gold, DE. Copper, DF. Nickel, DG. Tin, DH. Lead, DI. Zinc, DJ. Cadmium, DK. Platinum, DL. Silver, DM. Gold, DN. Copper, DO. Nickel, DP. Tin, DQ. Lead, DR. Zinc, DS. Cadmium, DT. Platinum, DU. Silver, DV. Gold, DV. Copper, DW. Nickel, DX. Tin, DY. Lead, DZ. Zinc, EA. Cadmium, EB. Platinum, EC. Silver, ED. Gold, EE. Copper, EF. Nickel, EG. Tin, EH. Lead, EI. Zinc, EJ. Cadmium, EK. Platinum, EL. Silver, EM. Gold, EN. Copper, EO. Nickel, EP. Tin, EQ. Lead, ER. Zinc, ES. Cadmium, ET. Platinum, EU. Silver, EV. Gold, EV. Copper, EW. Nickel, EX. Tin, EY. Lead, EZ. Zinc, FA. Cadmium, FB. Platinum, FC. Silver, FD. Gold, FE. Copper, FF. Nickel, FG. Tin, FH. Lead, FI. Zinc, FJ. Cadmium, FK. Platinum, FL. Silver, FM. Gold, FN. Copper, FO. Nickel, FP. Tin, FQ. Lead, FR. Zinc, FS. Cadmium, FT. Platinum, FU. Silver, FV. Gold, FV. Copper, FW. Nickel, FX. Tin, FY. Lead, FZ. Zinc, GA. Cadmium, GB. Platinum, GC. Silver, GD. Gold, GE. Copper, GF. Nickel, GG. Tin, GH. Lead, GI. Zinc, GJ. Cadmium, GK. Platinum, GL. Silver, GM. Gold, GN. Copper, GO. Nickel, GP. Tin, GQ. Lead, GR. Zinc, GS. Cadmium, GT. Platinum, GU. Silver, GV. Gold, GV. Copper, GW. Nickel, GX. Tin, GY. Lead, GZ. Zinc, HA. Cadmium, HB. Platinum, HC. Silver, HD. Gold, HE. Copper, HF. Nickel, HG. Tin, HH. Lead, HI. Zinc, HJ. Cadmium, HK. Platinum, HL. Silver, HM. Gold, HN. Copper, HO. Nickel, HP. Tin, HQ. Lead, HR. Zinc, HS. Cadmium, HT. Platinum, HU. Silver, HV. Gold, HV. Copper, HW. Nickel, HX. Tin, HY. Lead, HZ. Zinc, IA. Cadmium, IB. Platinum, IC. Silver, ID. Gold, IE. Copper, IF. Nickel, IG. Tin, IH. Lead, II. Zinc, IJ. Cadmium, IK. Platinum, IL. Silver, IM. Gold, IN. Copper, IO. Nickel, IP. Tin, IQ. Lead, IR. Zinc, IS. Cadmium, IT. Platinum, IU. Silver, IV. Gold, IV. Copper, IY. Nickel, IZ. Tin, JA. Cadmium, JB. Platinum, JC. Silver, JD. Gold, JE. Copper, JF. Nickel, JG. Tin, JH. Lead, JI. Zinc, JJ. Cadmium, JK. Platinum, JL. Silver, JM. Gold, JN. Copper, JO. Nickel, JP. Tin, JQ. Lead, JR. Zinc, JS. Cadmium, JT. Platinum, JU. Silver, JV. Gold, JV. Copper, JY. Nickel, JZ. Tin, KA. Cadmium, KB. Platinum, KC. Silver, KD. Gold, KE. Copper, KF. Nickel, KG. Tin, KH. Lead, KI. Zinc, KJ. Cadmium, KK. Platinum, KL. Silver, KM. Gold, KN. Copper, KO. Nickel, KP. Tin, KQ. Lead, KR. Zinc, KS. Cadmium, KT. Platinum, KU. Silver, KV. Gold, KV. Copper, KY. Nickel, KZ. Tin, LA. Cadmium, LB. Platinum, LC. Silver, LD. Gold, LE. Copper, LF. Nickel, LG. Tin, LH. Lead, LI. Zinc, LJ. Cadmium, LK. Platinum, LL. Silver, LM. Gold, LN. Copper, LO. Nickel, LP. Tin, LQ. Lead, LR. Zinc, LS. Cadmium, LT. Platinum, LU. Silver, LV. Gold, LV. Copper, LY. Nickel, LZ. Tin, MA. Cadmium, MB. Platinum, MC. Silver, MD. Gold, ME. Copper, MF. Nickel, MG. Tin, MH. Lead, MI. Zinc, MJ. Cadmium, MK. Platinum, ML. Silver, MM. Gold, MN. Copper, MO. Nickel, MP. Tin, MQ. Lead, MR. Zinc, MS. Cadmium, MT. Platinum, MU. Silver, MV. Gold, MV. Copper, MY. Nickel, MZ. Tin, NA. Cadmium, NB. Platinum, NC. Silver, ND. Gold, NE. Copper, NF. Nickel, NG. Tin, NH. Lead, NI. Zinc, NJ. Cadmium, NK. Platinum, NL. Silver, NM. Gold, NN. Copper, NO. Nickel, NP. Tin, NQ. Lead, NR. Zinc, NS. Cadmium, NT. Platinum, NU. Silver, NV. Gold, NV. Copper, NY. Nickel, NZ. Tin, OA. Cadmium, OB. Platinum, OC. Silver, OD. Gold, OE. Copper, OF. Nickel, OG. Tin, OH. Lead, OI. Zinc, OJ. Cadmium, OK. Platinum, OL. Silver, OM. Gold, ON. Copper, OO. Nickel, OP. Tin, OQ. Lead, OR. Zinc, OS. Cadmium, OT. Platinum, OU. Silver, OV. Gold, OV. Copper, OY. Nickel, OZ. Tin, PA. Cadmium, PB. Platinum, PC. Silver, PD. Gold, PE. Copper, PF. Nickel, PG. Tin, PH. Lead, PI. Zinc, PJ. Cadmium, PK. Platinum, PL. Silver, PM. Gold, PN. Copper, PO. Nickel, PP. Tin, PQ. Lead, PR. Zinc, PS. Cadmium, PT. Platinum, PU. Silver, PV. Gold, PV. Copper, PY. Nickel, PZ. Tin, QA. Cadmium, QB. Platinum, QC. Silver, QD. Gold, QE. Copper, QF. Nickel, QG. Tin, QH. Lead, QI. Zinc, QJ. Cadmium, QK. Platinum, QL. Silver, QM. Gold, QN. Copper, QO. Nickel, QP. Tin, QQ. Lead, QR. Zinc, QS. Cadmium, QT. Platinum, QU. Silver, QV. Gold, QV. Copper, QY. Nickel, QZ. Tin, RA. Cadmium, RB. Platinum, RC. Silver, RD. Gold, RE. Copper, RF. Nickel, RG. Tin, RH. Lead, RI. Zinc, RJ. Cadmium, RK. Platinum, RL. Silver, RM. Gold, RN. Copper, RO. Nickel, RP. Tin, RQ. Lead, RR. Zinc, RS. Cadmium, RT. Platinum, RU. Silver, RV. Gold, RV. Copper, RY. Nickel, RZ. Tin, SA. Cadmium, SB. Platinum, SC. Silver, SD. Gold, SE. Copper, SF. Nickel, SG. Tin, SH. Lead, SI. Zinc, SJ. Cadmium, SK. Platinum, SL. Silver, SM. Gold, SN. Copper, SO. Nickel, SP. Tin, SQ. Lead, SR. Zinc, SS. Cadmium, ST. Platinum, SU. Silver, SV. Gold, SV. Copper, SY. Nickel, SZ. Tin, TA. Cadmium, TB. Platinum, TC. Silver, TD. Gold, TE. Copper, TF. Nickel, TG. Tin, TH. Lead, TI. Zinc, TJ. Cadmium, TK. Platinum, TL. Silver, TM. Gold, TN. Copper, TO. Nickel, TP. Tin, TQ. Lead, TR. Zinc, TS. Cadmium, TT. Platinum, TU. Silver, TV. Gold, TV. Copper, TY. Nickel, TZ. Tin, UA. Cadmium, UB. Platinum, UC. Silver, UD. Gold, UE. Copper, UF. Nickel, UG. Tin, UH. Lead, UI. Zinc, UJ. Cadmium, UK. Platinum, UL. Silver, UM. Gold, UN. Copper, UO. Nickel, UP. Tin, UQ. Lead, UR. Zinc, US. Cadmium, UT. Platinum, UY. Silver, UV. Gold, UV. Copper, UY. Nickel, UZ. Tin, VA. Cadmium, VB. Platinum, VC. Silver, VD. Gold, VE. Copper, VF. Nickel, VG. Tin, VH. Lead, VI. Zinc, VJ. Cadmium, VK. Platinum, VL. Silver, VM. Gold, VN. Copper, VO. Nickel, VP. Tin, VQ. Lead, VR. Zinc, VS. Cadmium, VT. Platinum, VU. Silver, VV. Gold, VV. Copper, VY. Nickel, VZ. Tin, WA. Cadmium, WB. Platinum, WC. Silver, WD. Gold, WE. Copper, WF. Nickel, WG. Tin, WH. Lead, WI. Zinc, WJ. Cadmium, WK. Platinum, WL. Silver, WM. Gold, WN. Copper, WO. Nickel, WP. Tin, WQ. Lead, WR. Zinc, WS. Cadmium, WT. Platinum, WY. Silver, WV. Gold, WV. Copper, WY. Nickel, WZ. Tin, XA. Cadmium, XB. Platinum, XC. Silver, XD. Gold, XE. Copper, XF. Nickel, XG. Tin, XH. Lead, XI. Zinc, XJ. Cadmium, XK. Platinum, XL. Silver, XM. Gold, XN. Copper, XO. Nickel, XP. Tin, XQ. Lead, XR. Zinc, XS. Cadmium, XT. Platinum, XU. Silver, XV. Gold, XV. Copper, XY. Nickel, XZ. Tin, YA. Cadmium, YB. Platinum, YC. Silver, YD. Gold, YE. Copper, YF. Nickel, YG. Tin, YH. Lead, YI. Zinc, YJ. Cadmium, YK. Platinum, YL. Silver, YM. Gold, YN. Copper, YO. Nickel, YP. Tin, YQ. Lead, YR. Zinc, YS. Cadmium, YT. Platinum, YU. Silver, YV. Gold, YV. Copper, YY. Nickel, YZ. Tin, ZA. Cadmium, ZB. Platinum, ZC. Silver, ZD. Gold, ZE. Copper, ZF. Nickel, ZG. Tin, ZH. Lead, ZI. Zinc, ZJ. Cadmium, ZK. Platinum, ZL. Silver, ZM. Gold, ZN. Copper, ZO. Nickel, ZP. Tin, ZQ. Lead, ZR. Zinc, ZS. Cadmium, ZT. Platinum, ZU. Silver, ZV. Gold, ZV. Copper, ZY. Nickel, ZZ. Tin.

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