

# Return of Fear: *When extinction is not enough*

*European Fear Conditioning Meeting*

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## Acquisition

Sig. discrimination between A+ and A-

US Exp.:  $F(1, 45) = 1625.82, p < .001$

SCR:  $F(1, 45) = 44.28, p < .001$

FPS:  $F(1, 45) = 10.86, p < .005$

No effect of Group

## Start of Extinction

Sig. discrimination between A+ and A- for US Exp.

US Exp.:  $F(1, 45) = 28.24, p < .001$

SCR and FPS did not show sig. discrimination

SCR:  $F(1, 45) = 1.48, p > .05$

FPS:  $F(1, 45) = .39, p > .05$

No effect of Group

## End of Extinction

No discrimination between B+ and B- for any of the variables.

No effect of Group

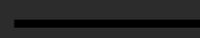
## Legend



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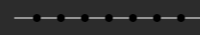
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ABA



ABC



ABB

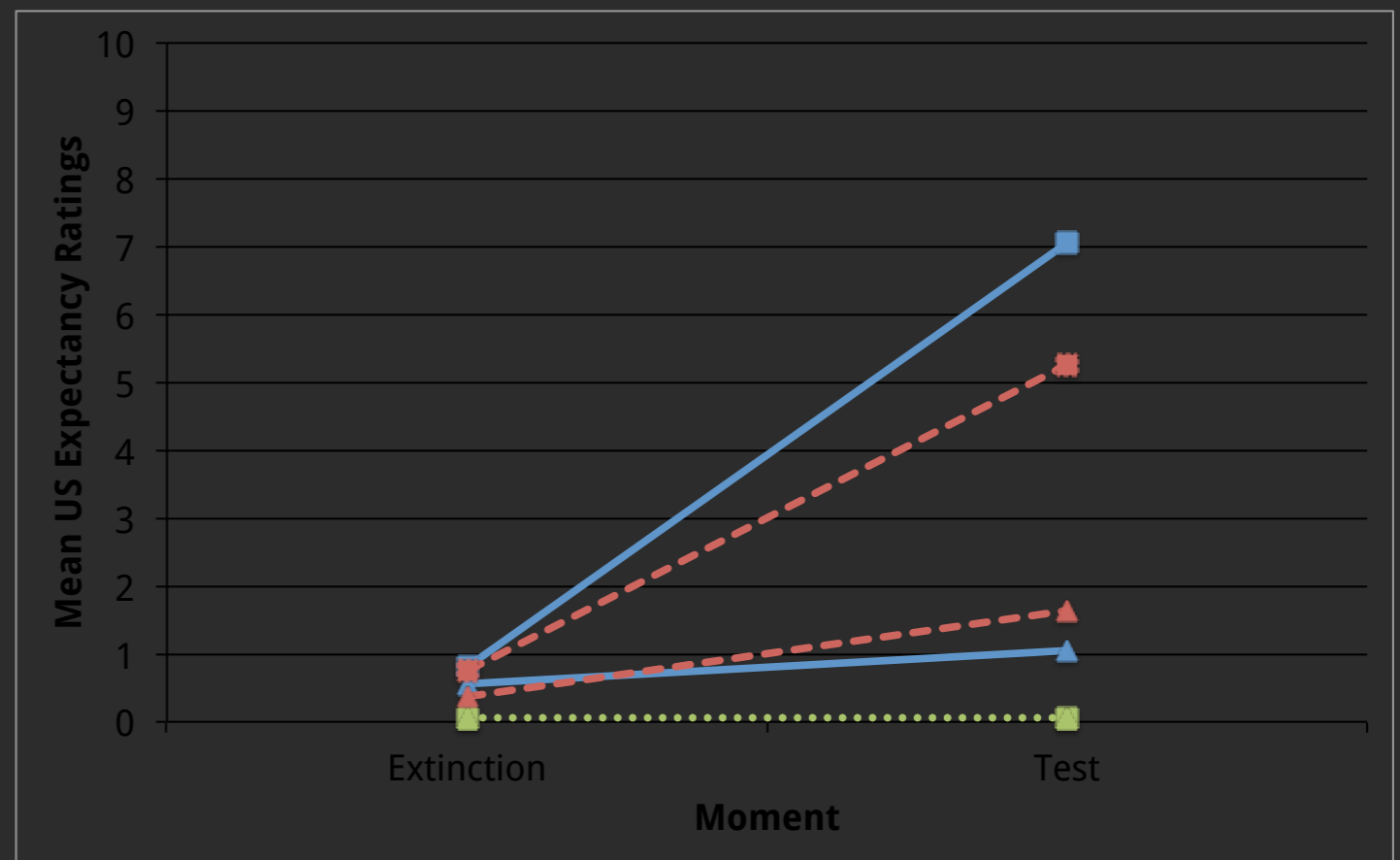
## Start of Test

### US expectancy

Sig. Group  $\times$  CS  $\times$  Trial interaction ( $F(2, 45) = 10.57, p < .001$ )

Sig. difference between CS(GS)+ and CS(GS)- in ABA and ABC ( $p < .001$ )

Expectancy for CS(GS)+ in groups ABA and ABC significantly higher than group ABB ( $p < .001$ )

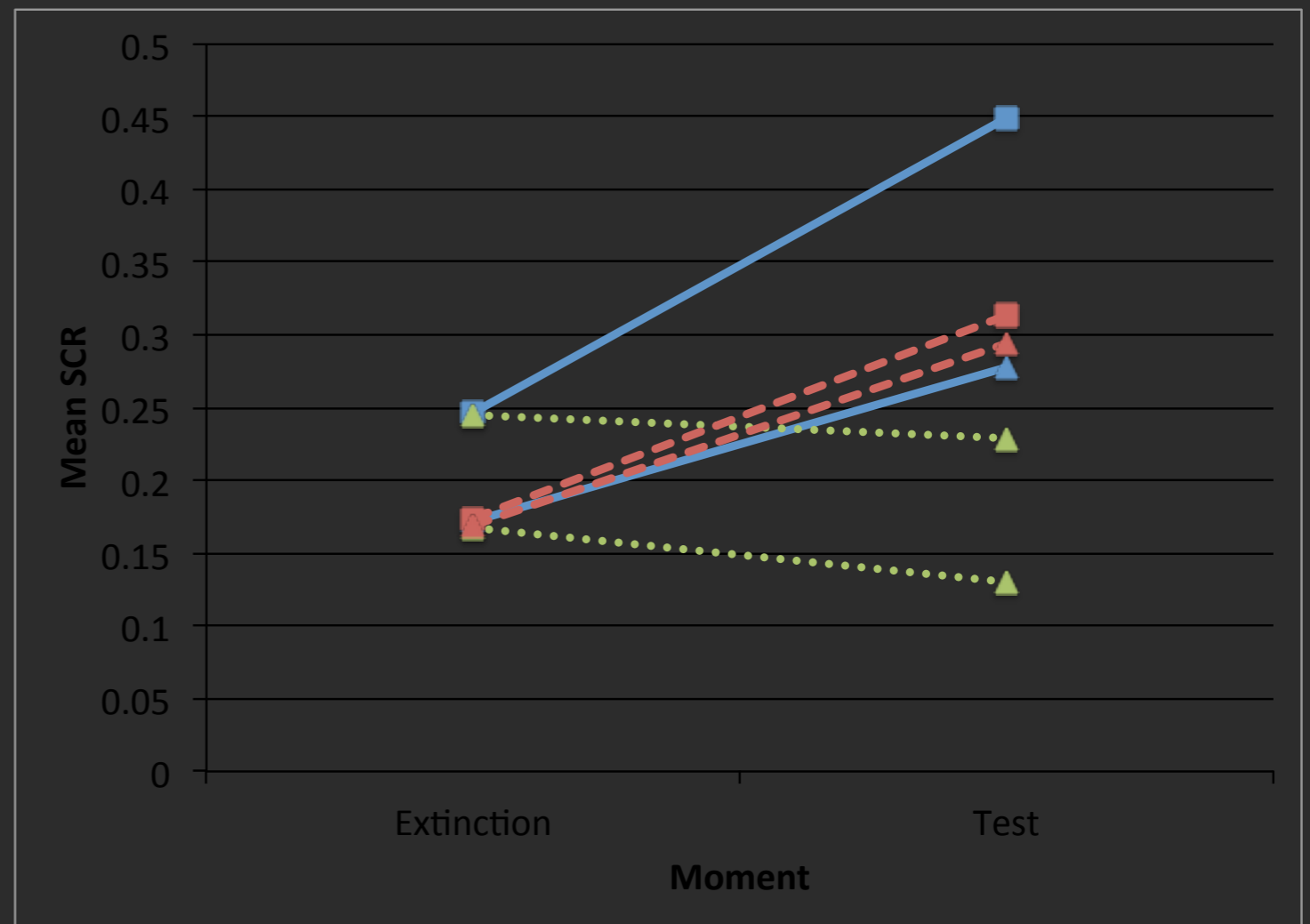


# Skin Conductance Response (SCR)

Sig. Block  $\times$  Group ( $F(2, 45) = 7.30, p < .005$ ), and CS  $\times$  Group ( $F(2, 45) = 6.69, p < .005$ ) interactions

Sig. difference between CS+ and CS- in ABA ( $p < .005$ )

Expectancy for CS(GS)+ in groups ABA and ABC significantly higher than group ABB ( $p < .005, p < .05$  respectively)



# Fear Potentiated Startle

Sig. Block  $\times$  Group interaction, ( $F(2, 45) = 3.74, p < .05$ )

No sig. differences between CS(GS)+ and CS(GS)- in any group.

Expectancy for CS(GS)+ in group ABC significantly higher than group ABB ( $p < .05$ )





## ABC group:

$$\text{Generalization Index 2} = C+ - B+$$

Sig. positive correlation with ACS and eACS ( $r = .61$  and  $r = .58$ ,  $p < .05$ , respectively)

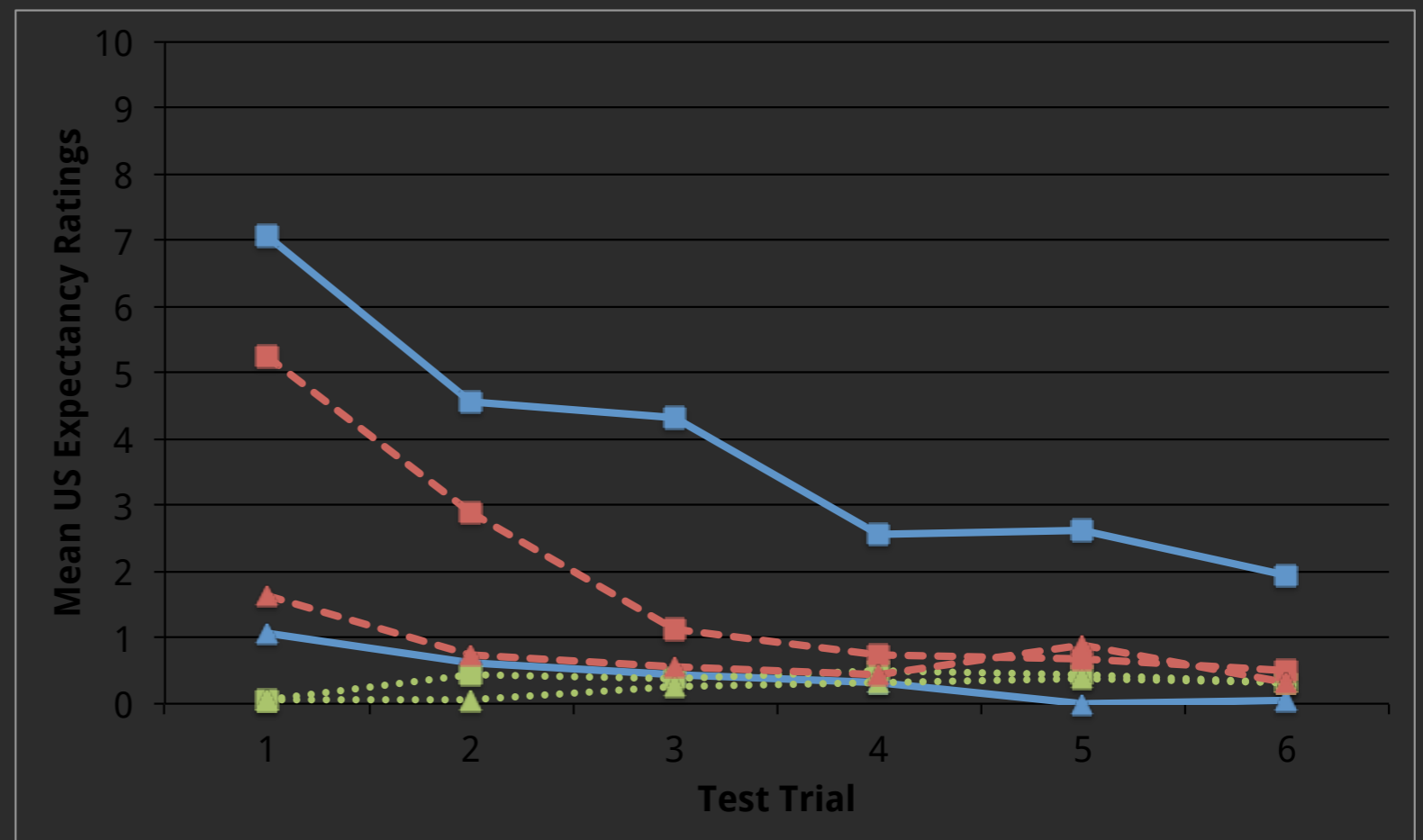
Non sig. negative correlation with STAI-T ( $r = -.47$   $p = .07$ )

Test

## US expectancy

Sig. Group  $\times$  CS  $\times$  Trial interaction ( $F(10, 225) = 3.63, p < .005$ )

Sig. difference between CS+ and CS- in ABA in the final trial of Test ( $p < .001$ )

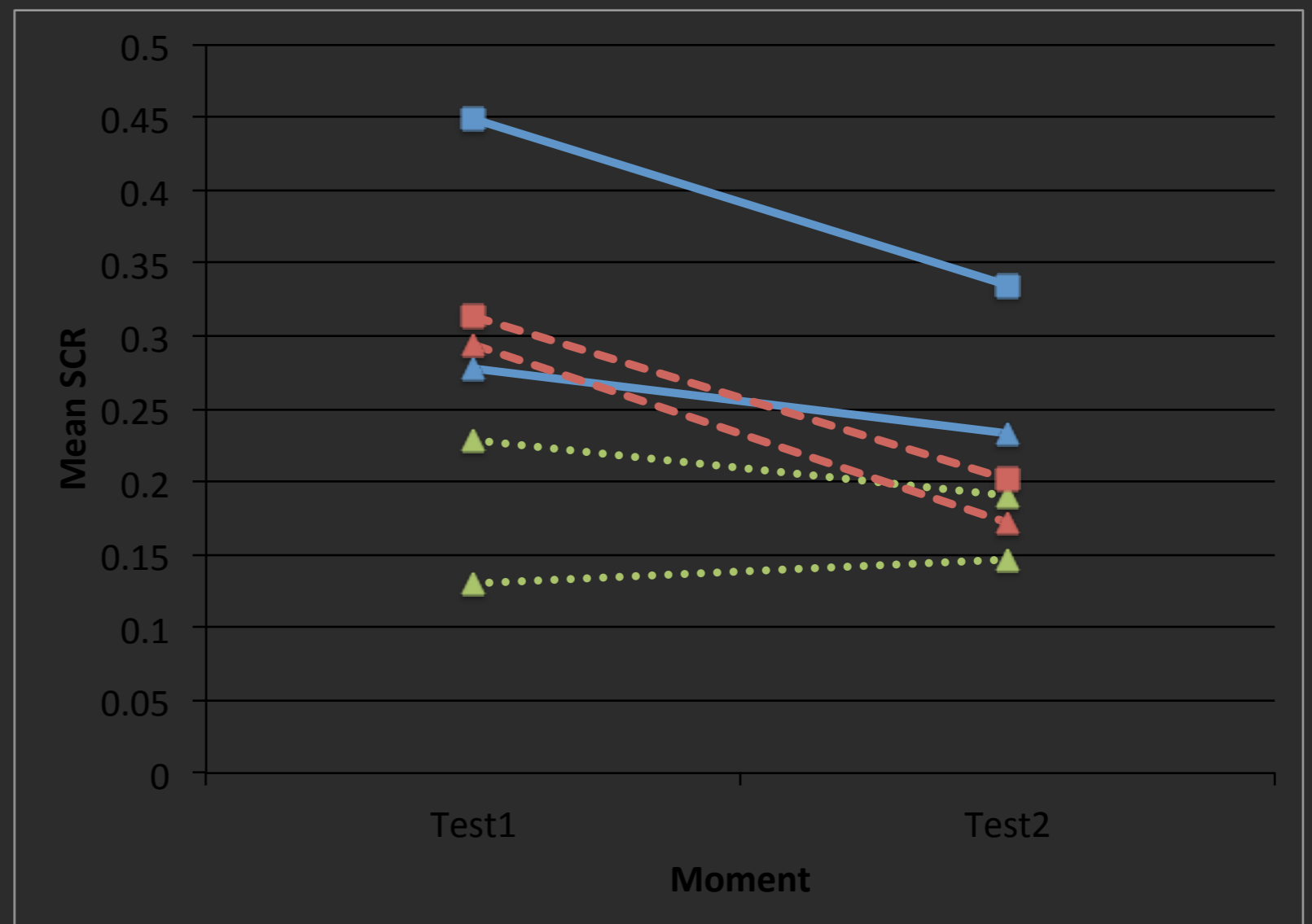


# Skin Conductance Response (SCR)

Sig. main effect of Block ( $F(1, 45) = 8.22, p < .01$ )

Sig. CS  $\times$  Group interaction ( $F(1, 45) = 9.16, p < .001$ )

Sig. difference between CS+ and CS- in ABA in the final block of Test ( $p < .05$ )



# Fear Potentiated Startle (FPS)

Sig. Block  $\times$  Group interaction ( $F(2, 45) = 7.77, p < .005$ )

Almost sig. difference between CS+ and CS- in ABA in the final block of Test ( $p = .05$ )

