

# Interrupt me! Why forced interruptions are better than voluntary interruptions Ioanna Katidioti, Jelmer Borst, & Niels Taatgen University of Groningen



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## Introduction

**Self-interruptions happen as often as** external interruptions in everyday life: **1. we decide to switch tasks** 2. we interrupt our primary task 3. we switch to the secondary task



**Pupillometry was used to investigate** the switching process in self-interruptions and external interruptions



CARTOON NETWORK

# Method

**Primary task: Memory Game** 

#### **Interrupting task:** 2-back



**Two cards match if their** equations have the same X value

**Decide if the current letter is** the same as 2 letters before

Three switches to the interrupting task during a memory game



### Variations

participant chooses when to switch (self-interruption)

### Conclusions

#### **Forced**:

**1. Voluntary :** 

external interruption while solving an equation (Exp 1) external interruption while clicking on a card (Exp 2)

### **2.** NoDelay:

**2-back starts immediately after the switch Delay:** 2-back starts 3 seconds after the switch



**Pupil dilation increased before the interruption more in the Voluntary condition:** - Decision to switch reflected in pupil - Decision to switch starts a couple of seconds before the interruption

**Faster in the Forced condition:** - Decision to switch has time costs



#### Better to be interrupted than decide when to self-interrupt?





