



# Project work kick-off

BAMB! Summer School

Day 1 - 17 July 2024

# General overview

- **Expectations**
- **Selected datasets and group attributions**
- **Recap schedule**
- **In parallel: “Faculty Clinic”**
- **Questions?**

# Expectations

These datasets are usually associated to one or more research papers

# Expectations

These datasets are usually associated to one or more research papers

We encourage you to come up with **your own research question(s), go beyond the initial paper and exploit the dataset in another manner**

# Expectations

These datasets are usually associated to one or more research papers

We encourage you to come up with **your own research question(s), go beyond the initial paper and exploit the dataset in another manner**

You can take risks in your choice of research ideas for the school: it is a learning experience!

You are encouraged to **rely on/apply/inspire from methods seen in lectures and in tutorials**

# Tutors

TAs will discuss with you during brainstorming tomorrow

TA - student group assignments will be based on your choice of modeling framework and dataset

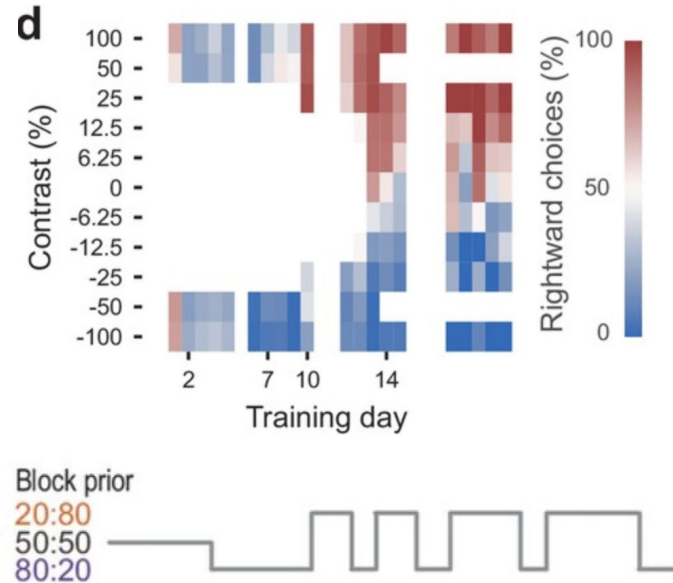
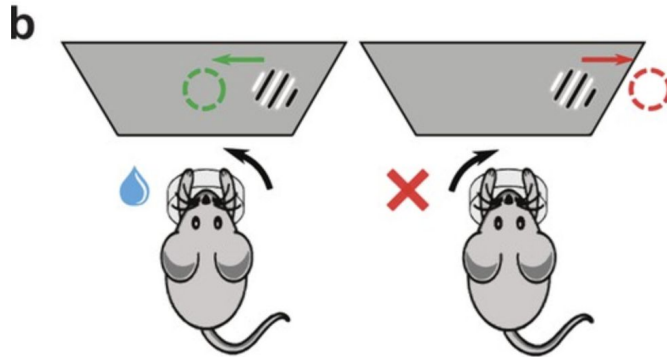
**Please keep in touch with your TA if/when you need their input**

Datasets are going to be here (tomorrow):

<https://github.com/bambschool/BAMB2024/tree/main/datasets>

# Dataset 1

## International Brain Laboratory





# Dataset 1

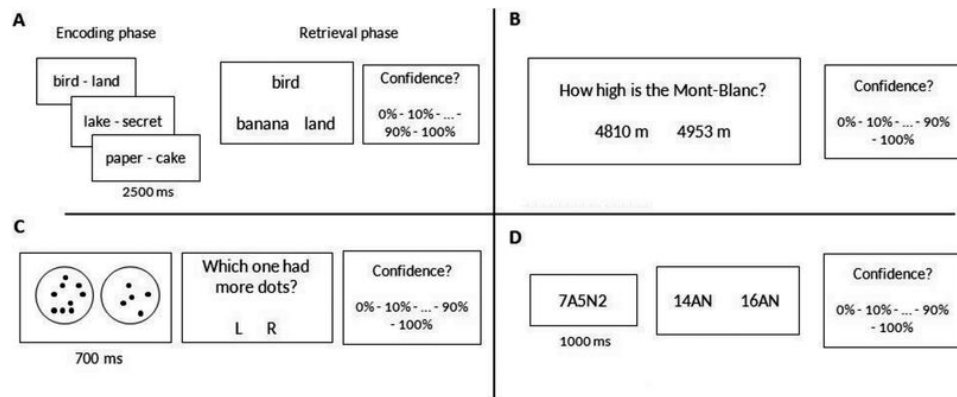
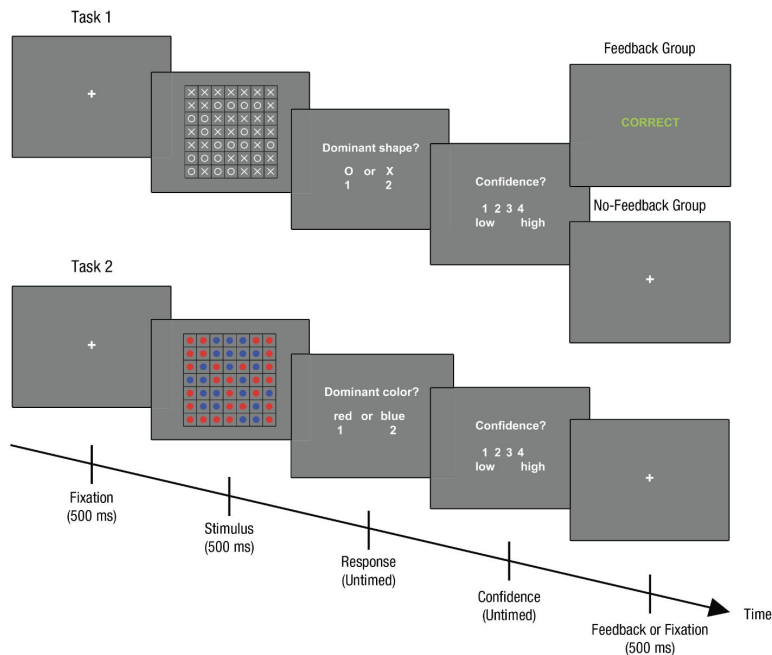
## International Brain Laboratory

Group 1a: Aynaz  
Timon  
Ilaria

Group 1b: Tom  
Sophie  
Justyna

# Dataset 2

## The confidence database



# Dataset 2

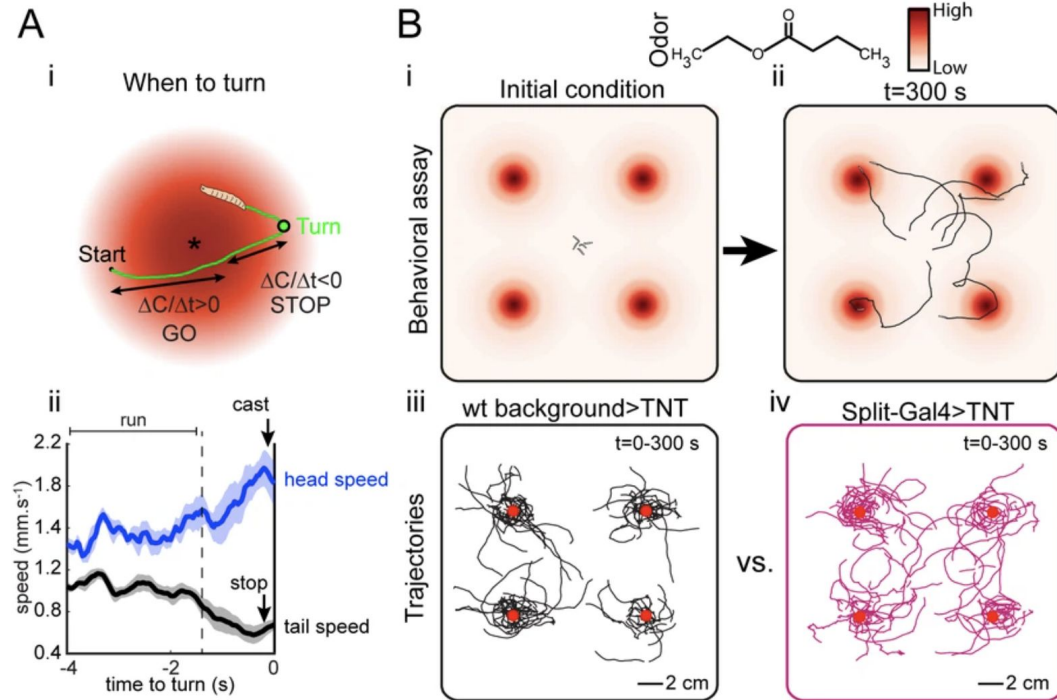
## The confidence database

Group 2a:   Iair  
              Rahul  
              Georgios

Group 2b:   Ashim  
              Federico  
              Vinsea

# Dataset 3

## Chemotaxis in drosophila larvae



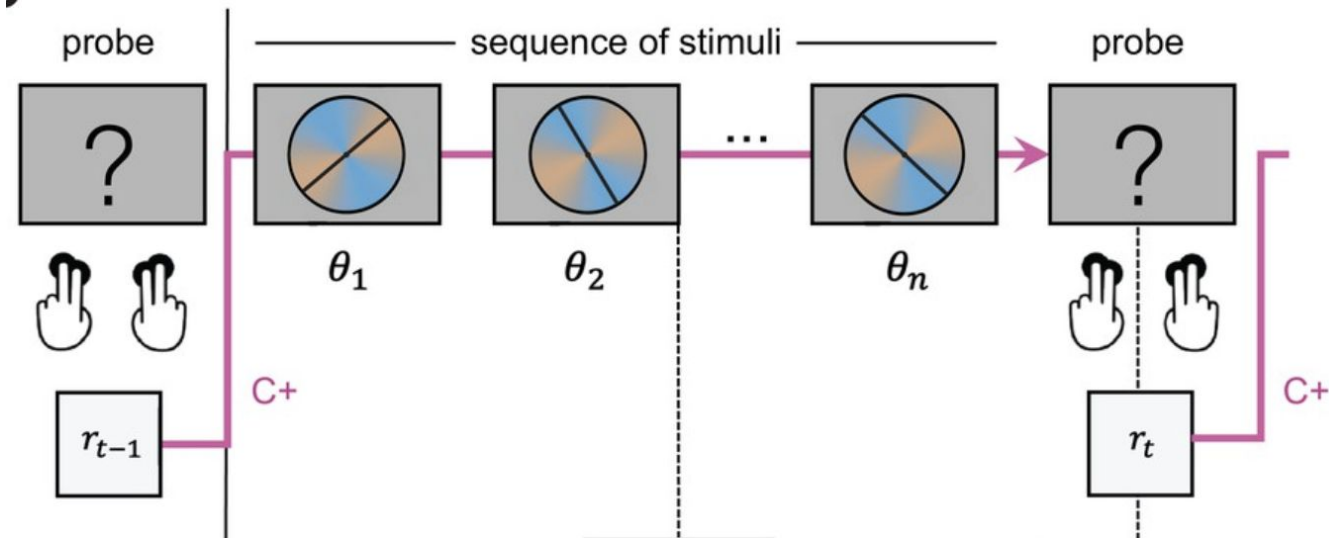
# Dataset 3

## Chemotaxis in drosophila larvae

Group 3:     Svenja  
                 Rao  
                 Ritu

# Dataset 4

## Inference, confidence and decision-making



# Dataset 4

## Inference, confidence and decision-making

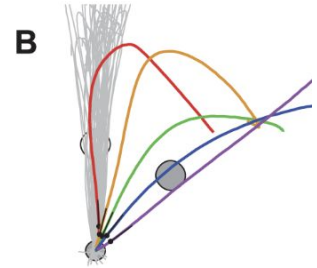
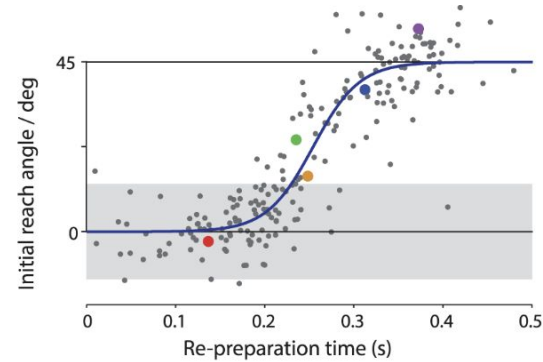
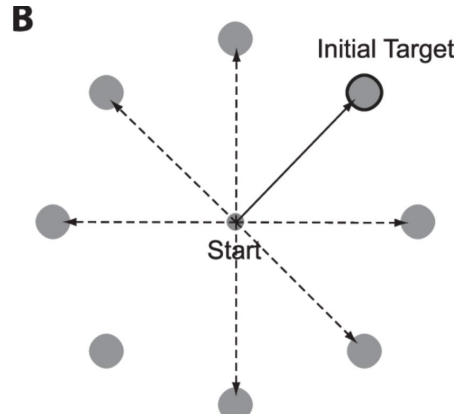
Group 4a: Sabrina  
Fabian  
Minho

Group 4b: Hicham  
Judit  
Luc

Group 4c: Carola  
Vladislav  
Ariadna

# Dataset 5

## Motor adaptation to perturbation





# Dataset 5

## Motor adaptation to perturbation

Group 5a: Jet  
Katharina  
Giuliano

Group 5b: Alexandre  
Ingrid  
Eros

# Recap of the schedule (1/2)

- **Tomorrow (18/07): Initial brainstorming about research ideas** (on your own and with TAs and organizers)  
→ focus on conceptual scientific questions

# Recap of the schedule (1/2)

- **Tomorrow (18/07): Initial brainstorming about research ideas** (on your own and with TAs and organizers)

→ focus on conceptual scientific questions

- **Tomorrow (19/07): Group presentations on the selected research directions**
  - 5 min of presentation per group
  - 3 min of feedback and questions to help you structure your ideas
  - Assignment of TAs
  - Please use Google slides, upload your slides in advance

# Recap of the schedule (2/2)

- **Project work slots on your own (all other days)**

- check whether at student residence or at the Institute!
- with guidance from your TA

- **Presentation of your results (25/07 afternoon)**

- 10 min of presentation per group
- 5 min of questions from organizers and TAs
- Google slides

# In parallel: “Faculty Clinic”

Each of you has 1 or 2 **one-on-one meetings of 30 min** scheduled with faculty members (see Slack channel)

In the court of PRBB (outside the lecture room)

**You are welcome to take advantage of the many coffee breaks and lunch breaks to speak with other faculty members!**

Questions?