



Project work kick-off

BAMB! Summer School

Day 1 - 16 July 2025

General overview

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

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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

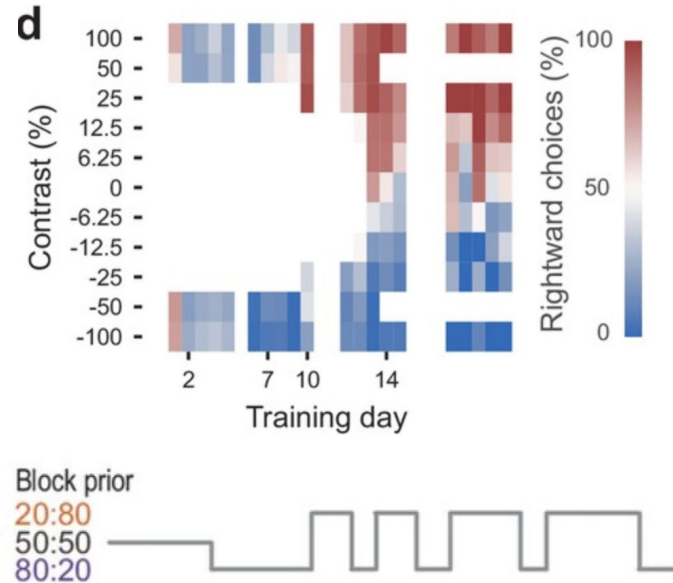
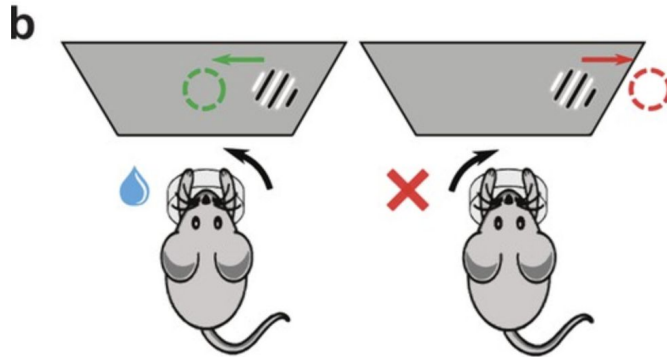
Please keep in touch with your TA if/when you need their input

Datasets are going to be here (tomorrow):

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

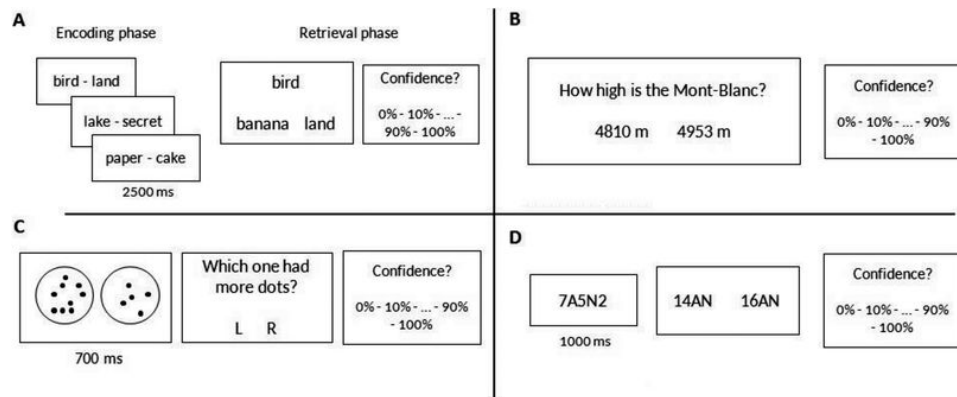
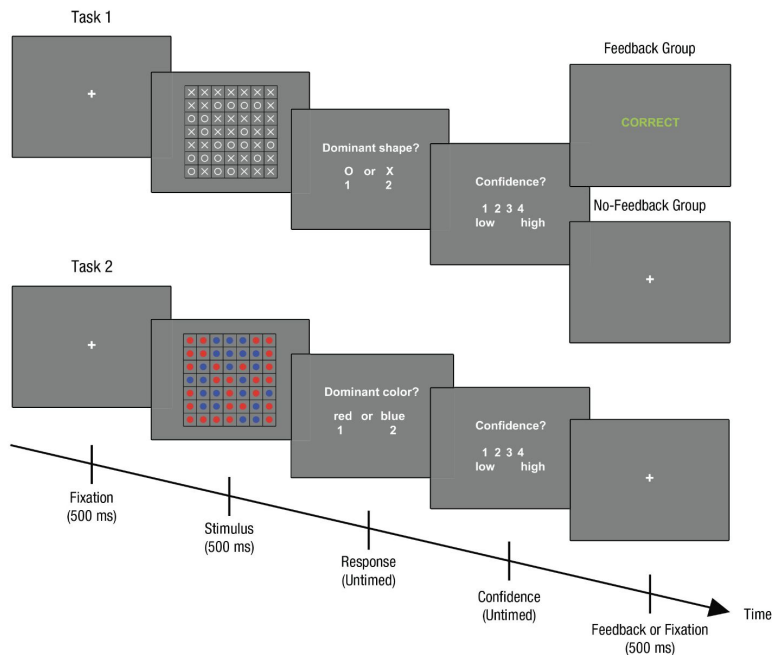
Dataset 1

International Brain Laboratory



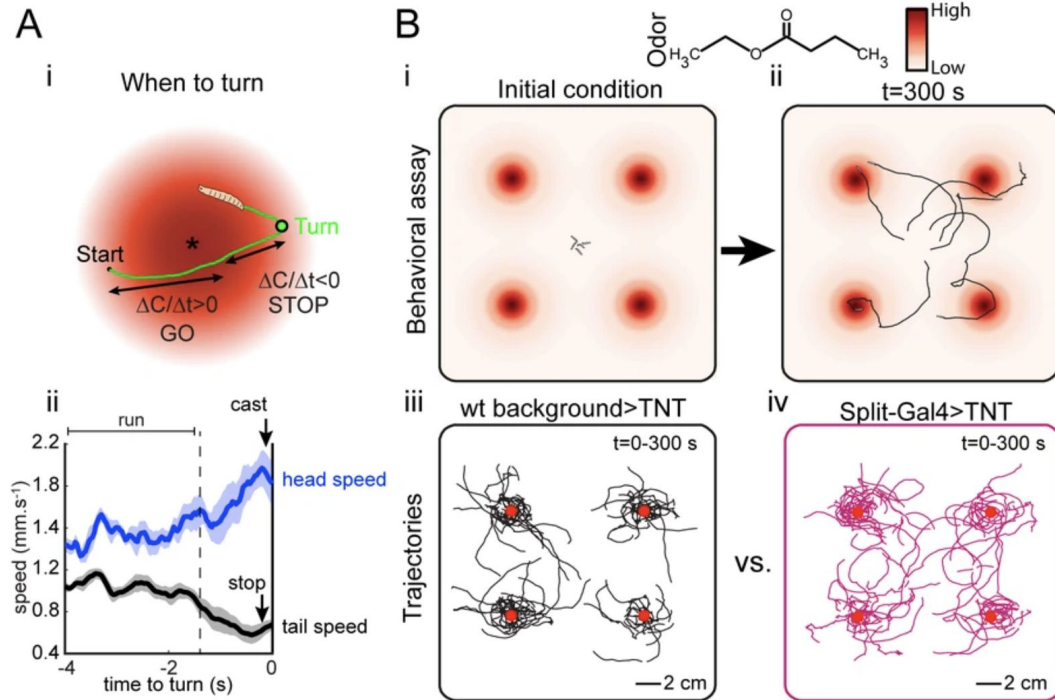
Dataset 2

The confidence database



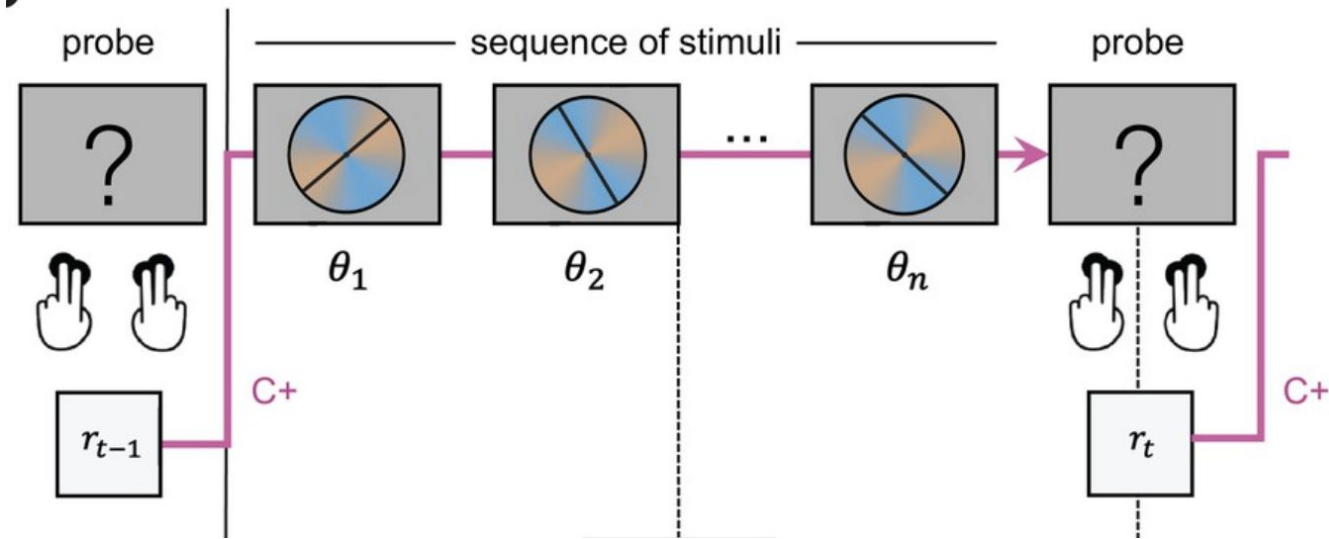
Dataset 3

Chemotaxis in drosophila larvae



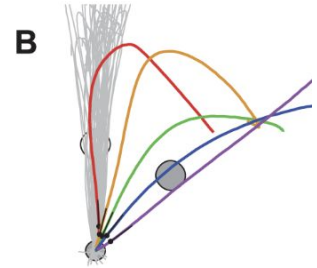
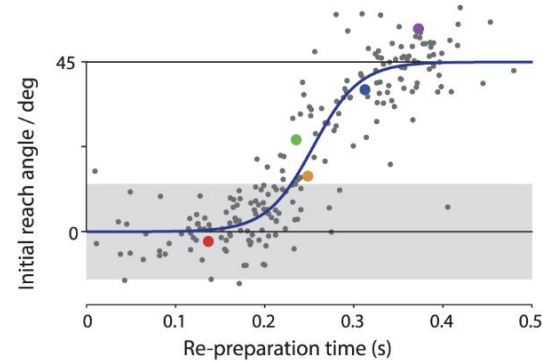
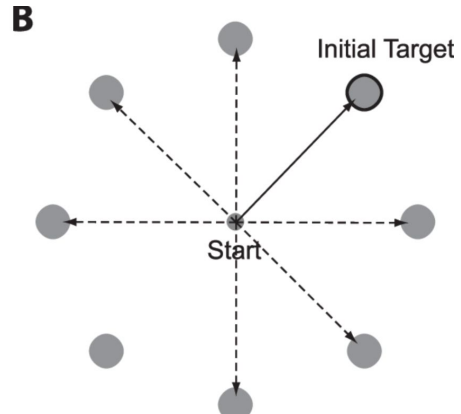
Dataset 4

Inference, confidence and decision-making



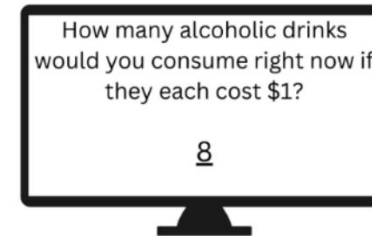
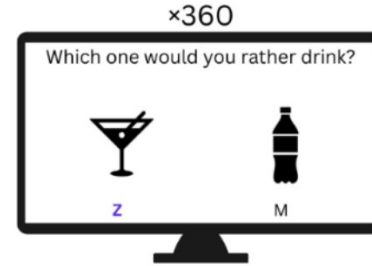
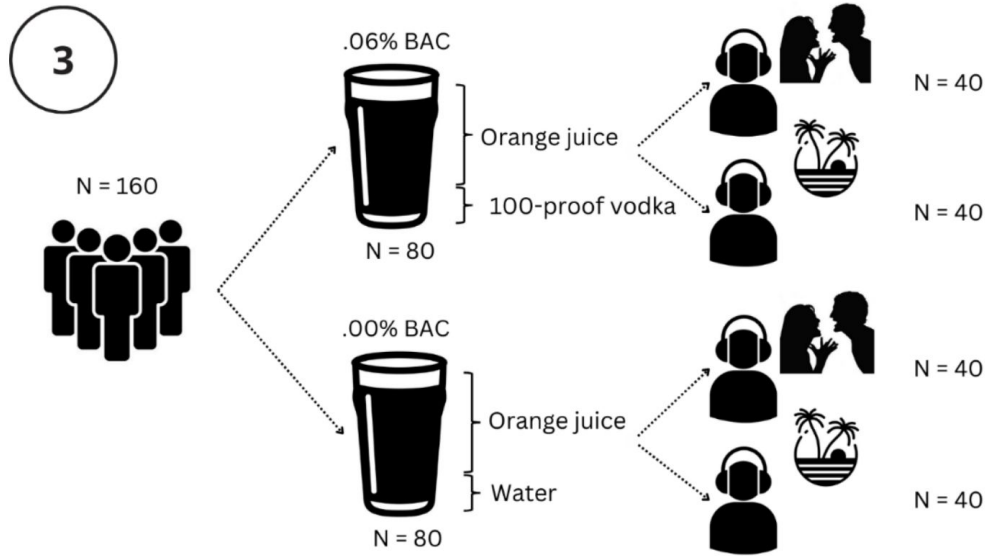
Dataset 5

Motor adaptation to perturbation



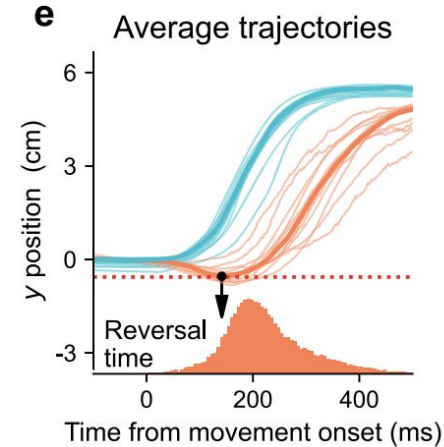
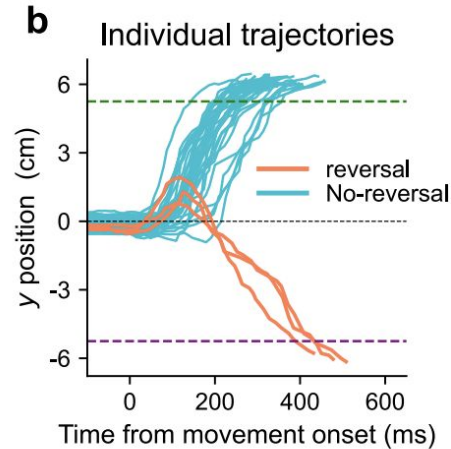
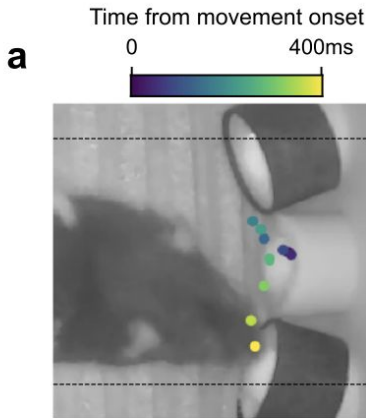
Dataset 6

Alcohol and decision making



Dataset 7

Movement trajectories in decision making



Recap of the schedule (1/2)

- **Tomorrow (17/07): Initial brainstorming about research ideas** (on your own and with TAs and organizers)
→ focus on conceptual scientific questions

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- **Tomorrow (17/07): Initial brainstorming about research ideas** (on your own and with TAs and organizers)

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- **Friday (18/07): 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 (24/07 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 (Marion’s email)

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?