# **Cognitive modeling**

Joachim Vandekerckhove Spring 2025

## **Course Description**

Topics in quantitative methods used in cognitive sciences research focusing on process models, model building, parameter estimation, and model evaluation.

Examples drawn from models and methods used in cognitive sciences research with practical examples.

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• Docker Desktop

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You'll need to create a GitHub repository for this class.

**Recorded Lectures:** 

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• Published Monday afternoons

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## Virtual Meetings (Optional):

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#### **In-Person Meetings**:

• Wednesdays, 4:00 PM-4:50 PM

## Virtual Meetings (Optional):

• Fridays, 4:00 PM-4:50 PM

## Approximately Weekly Assignments (50%)

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- You will need all the skills from the hurdle assignments to complete the project assignments

## **Submission Policy**:

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- Recommendation: Set an internal deadline a day earlier than the due date

#### Hurdle assignments and collaboration

When you're stuck on something (e.g., getting a script to run), you have to try to solve the problem all by yourself for an hour, but then when the hour is up you have to ask for help. Failure to try wastes other people's time, failure to ask wastes your time.

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Finding partial solutions from unverified sources, implementing them, and then conducting rigorous tests is a highly generalizable coding paradigm.

## **Academic Dishonesty & Resources**

### Academic dishonesty policy

There is no tolerance for academic dishonesty or fraud. Any form of fraud designed to circumvent course policies will result in a failing grade. The professor makes no judgment calls regarding academic dishonesty. Any academic dishonesty, no matter how small, will be escalated to academic authorities.

#### Resources

- Disability Services: https://dsc.uci.edu/
- Academic Dishonesty: https://aisc.uci.edu/students/academic-integrity/index.php
- Copyright Policy: http://copyright.universityofcalifornia.edu/use/teaching.html

# Al Policy

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#### Rules:

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- 2. Acknowledge use of reference works, websites, and Al tools in comments.

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