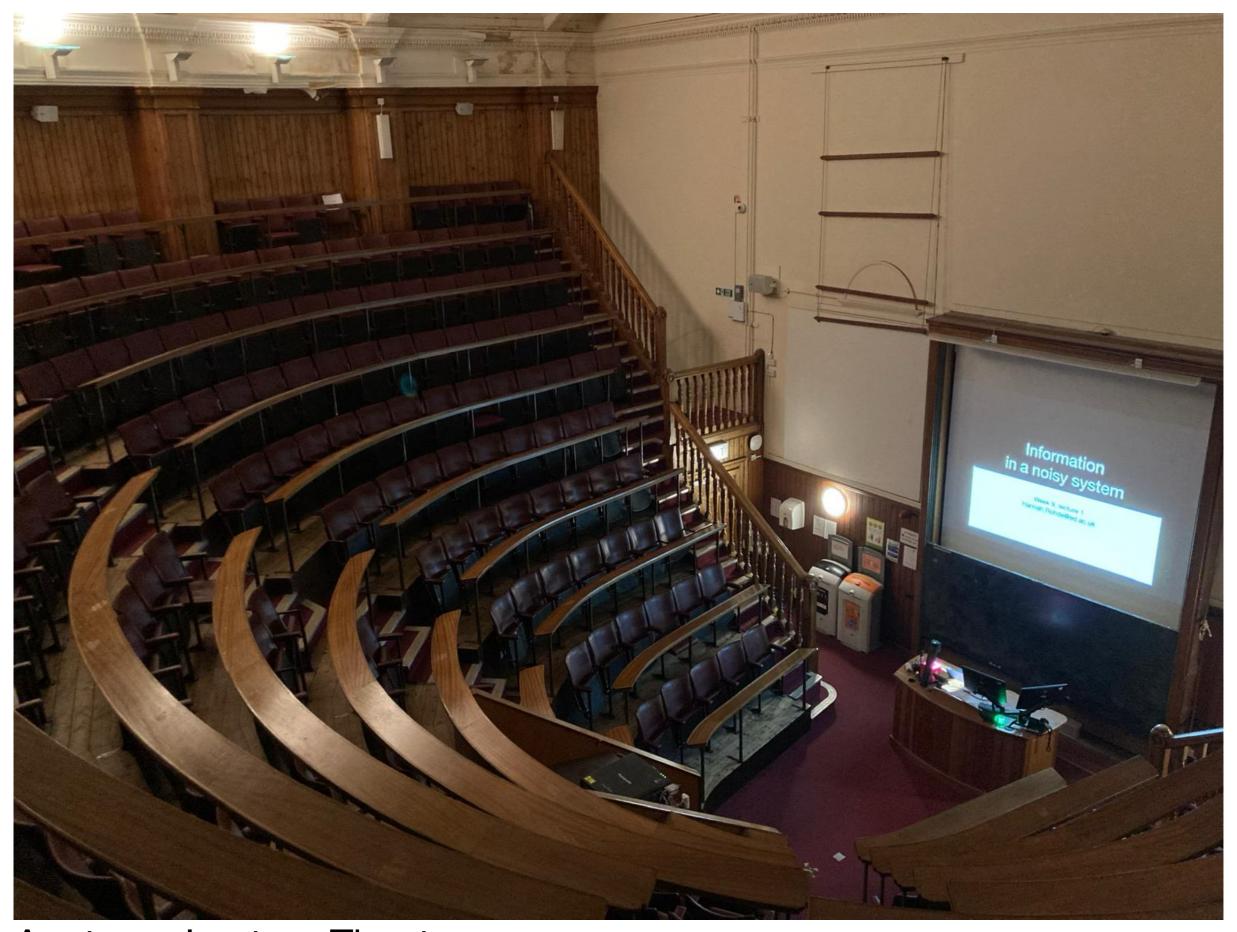
# Cognitive Science in Edinburgh

Hannah Rohde, Linguist & Teaching Director of UG Cognitive Science degree







Anatomy Lecture Theatre, Edinburgh Medical School

### CogSci in Edinburgh

- My message to students:
  - This is the degree I wish I'd done
  - Flexibility/Interdisciplinarity
- Upsides: Study amazing content, benefit from huge freedom, small cohort (~20 per year)

[For me: excellent motivated curious students]

Downsides: No home department, risk of slipping between the cracks, need more hours in the day

[For me: reliant on goodwill of 4 departments]

#### How to balance breadth and cohesion?

- ... Access to Phil/Psych/Ling/Informatics courses
- ... Study space in "/"/"/" buildings
- ... But how to maintain sense of a cohort

#### Undergrad degrees in Scotland

- High school students apply directly to a degree
- University students have some outside courses in years1&2, degree-only in years3&4

How do students find out about CogSci?

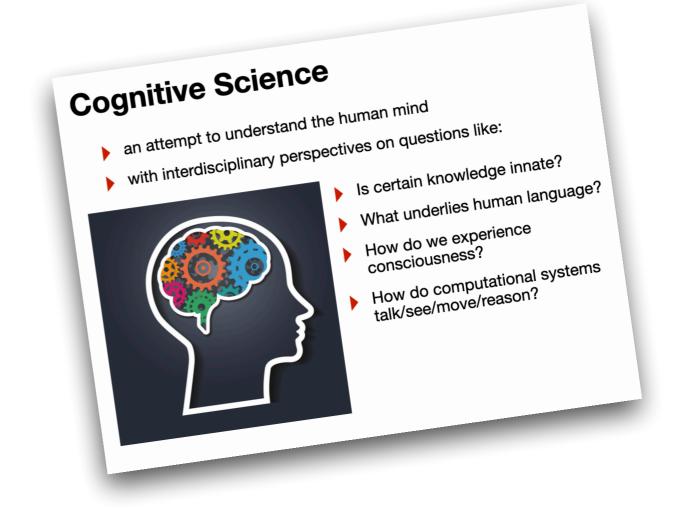
I've always been interested in the human mind I saw a video on the university website

There was this video on youtube about Al

It was an accident; I meant to click Computer Science

## How to recruit students?

- Open Days (October, June)
- Post-offer visiting day



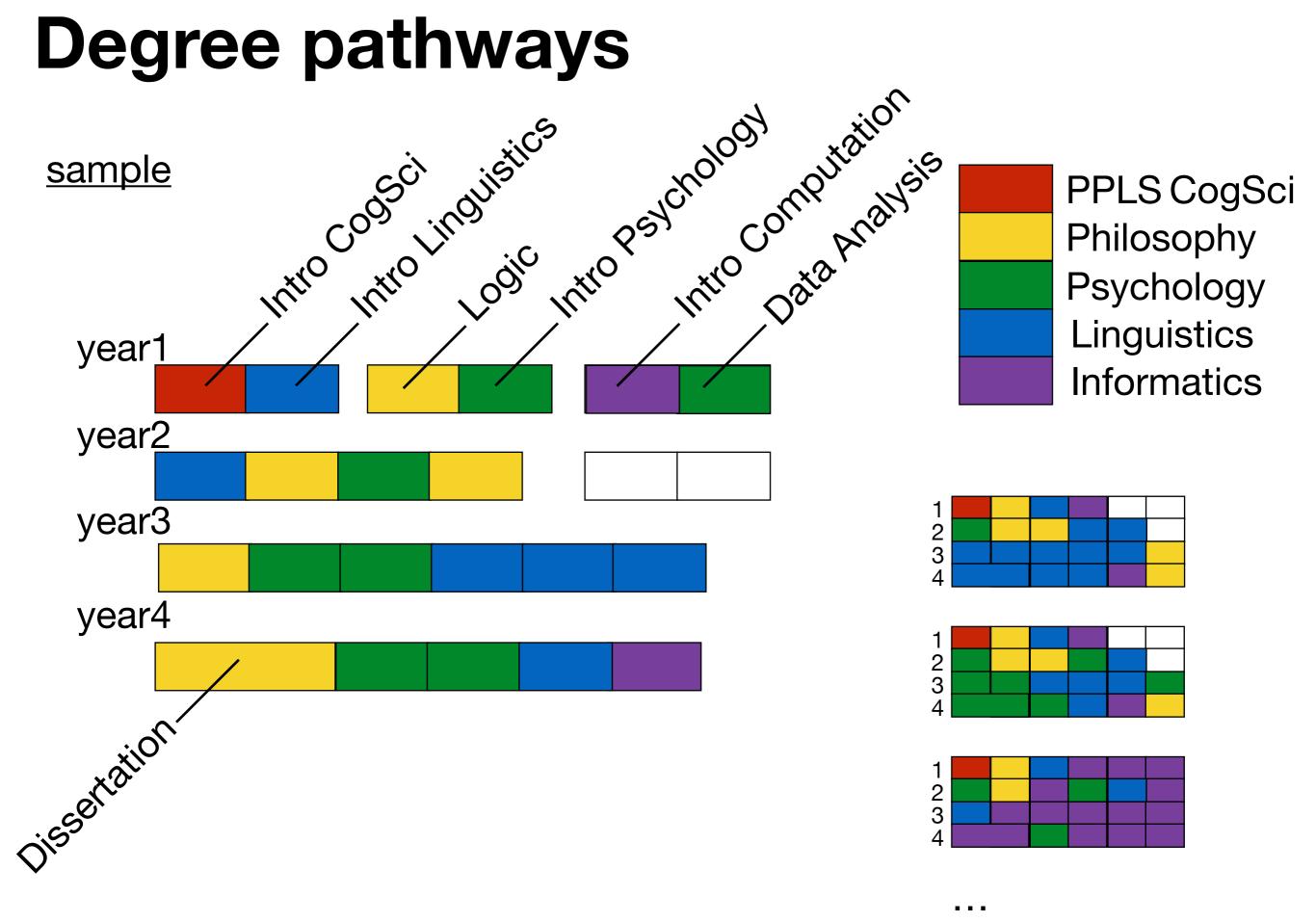
- Getting the word out:
  - Psychology applicants (contact students directly)
  - IntroCogSci students from other degrees (adjust degree requirements to allow transfers)

#### 1st year course: Intro Cog Sci

"a philosopher, a psychologist & a linguist walked into..."

- Co-taught course introducing:
  - Nativism & empiricism
  - Modularity & representation
  - Consciousness & embodiment
  - Information & inference
  - Language evolution, variation, & learning

### Degree pathways



#### What ties it all together?

- Memorable courses
  - Puzzles and Paradoxes
  - Mind, World, and Language
  - Me, Myself, and Other (Less Important) Subjects
  - Computational Cognitive Science
  - ...
- Dissertation
  - Perceptual & Semantic Similarity in False Memory
  - Using Tongue-Twisters to Understand Inner Speech
  - Evolutionary Psychology & Problems of Modularity
  - Emergence of Compositionality with Neural Networks
  - ...
- Student CogSci society
- Annual CogSciCon event

Final-year capstone course? ... what would it cover?

... is freedom/depth better?

#### Computation in Cognitive Science

- Cognitive modelling, machine learning & applications, practicalities of data collection, etc.
- Logical mindset for breaking down ideas

#### **Teaching?**

- ... How to link intro programming to high-level CogSci topics?
- ... How to assess programming skills?
- ... Techniques for programming are changing
- ... Focus on computational/algorithmic/implementation levels
- ... Focus on methods (e.g., virtual reality), topics (e.g., social robotics), and new frontiers in information

