Review and Exam Practice

I am Julie Williamson and you are sitting in the final HCI lecture of CS1F (IM review is on Thursday)

HCI Round Up

- 5.5 Weeks, 10 Lectures
- Fourth year teaching this course
 - New Lab Exercises since 2018
- Assigned reading from a variety of sources

User Interface Design

- Usability Heuristics
- Heuristic Evaluation
- Personas
- Scenarios
- Sketching Techniques

Quantitative Evaluation Techniques

- What is quantitative data
- Continuous versus discrete data
- Methods for collecting and analysing data
- Populations and Samples
- Independent and Dependent Variables
- Within and Between Subjects
- Normal distribution
- How to Run an Experiment

Qualitative Evaluation Techniques

- Usability versus User Experience
- What is Qualitative Data
- Methods for Collecting and Analysing Data
 - Interview
 - Observation
- Sources of Bias
- Open, Axial, and Selective Coding

Implementing User Interfaces

- What is interaction
- Signals and human input
 - Control
 - Thresholding
- Feedback
- Dynamics
- Finite State Machines

Ethics

- Ethical Procedures for running evaluations
- Informed Consent

Writing an Exam Paper

- Write in Pen
- Write only on the front of each page
- Do not write in the margin

record mana		ou have recently completed an evaluation of a student age student records. You have collected a dataset that enty participants.	
	You selected your participants from a pool of admikind of selection called?	nistrators who are likely to use the system. What is this [2]	
	How would you describe the quantitative data have you collected?		
		[2]	
	Your analysis shows that the data is normally distributed. With respect to the mean and standard		
	deviation, what does this say about your data?	[4]	
This questio	on is about implementing user interfaces.		
	Being able to control interfaces is crucial for successwhy is this important?	ssful interaction. What is required to enable control, and [4]	
	Continuous actions by a user need to be translated	l into discrete actions. How can this be achieved? [2]	
		e an example of an interface that translates continuous action into discrete action, including the actions formed by a user, the signal that is generated, and how the signal is analysed.	
		[5]	
This questio	on is about <i>qualitative evaluation techniques</i> .		
	low would you complete a semi-structured interview as part of a user study?		
		[2]	
	Describe how you would analyse the results of a set techniques.	emi-structured interview using qualitative analysis [4]	