CS-0245 - Minds, Brains, and Machines: The 50 Key Ideas

Course Syllabus

Switch Views: Classes | Assignments | Readings/Listening | Events
[ HTML File Options ]

- signifies an online reading which requires Adobe Acrobat Reader®

Note: Some PDF files may not open correctly with Macintosh Preview

ADD: Class | Lab | Training Session | Assignment | Reading/Listening | Event
SPECIAL: Auto Insert All Classes | Copy Materials From A Previous Course

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READ: Hampshire College Electronic Reserve Policy

The 50 Key Ideas

ADD: Class | Lab | Training Session | Assignment | Reading/Listening | Event
-
ADD: All

Reading/Listening

Online Reading/Listening - Click to View/Listen

Slides from the day’s lecture

Required

ADD: Class | Lab | Training Session | Assignment | Reading/Listening | Event
-
ADD: All

Class

Organization. Doing Science. Introduction to Assignment 1. [ Required ]
Location: Adele Simmons Hall (ASH) Room 112

ADD: Class | Lab | Training Session | Assignment | Reading/Listening | Event
-
ADD: All

Assignment

Run yourself on the ANT task
This is an evolving assignment. By next Wednesday, we want everyone to run themselves in the ANT task and keep track of the three efficiency values reported at the end of the experiment. For starters try the following link to test yourself. It takes about a half hour. And do take short breaks when instructed to.
http://www.sacklerinstitute.org/users/jin.fan/ant/ANTRunOnline.html

When running ANT you can enter “testant” as your group/username and “10000” as your password. This is an evolving assignment. By next Wednesday, we want everyone to run themselves in the ANT task and keep track of the three efficiency values reported at the end of the experiment. For starters try the following link to test yourself. It takes about a half hour. And do take short breaks when instructed to.
http://www.sacklerinstitute.org/users/jin.fan/ant/ANTRunOnline.html

There is an ANT folder on all the Macs in Room 126 ASH. Look within the Applications folder. To start the experiment double click the file ANT.jar.

Required

ADD: Class | Lab | Training Session | Assignment | Reading/Listening | Event
-
ADD: All

Assignment

Thinking about cognitive functions
See the assignment for details.

Required

ADD: Class | Lab | Training Session | Assignment | Reading/Listening | Event
-
ADD: All

Reading/Listening

Online Reading/Listening - Click to View/Listen

Slides from the day’s lecture

Required

ADD: Class | Lab | Training Session | Assignment | Reading/Listening | Event
-
ADD: All

Reading/Listening

Online Reading/Listening - Click to View/Listen
Read this first. Try to get a good handle on most of it.

Required

ADD: Class | Lab | Training Session | Assignment | Reading/Listening | Event
-
ADD: All

Reading/Listening

Online Reading/Listening - Click to View/Listen
M. Posner & J. Fan, "Attention as an organ system." pp 31-61. J.

Start reading this paper, slowly. Make notes about things that you do not understand. Think about the significance of what you do understand.

Required

02:30 PM - 03:50 PM  
Class  
What is cognitive science 3.0. Continuation of first research example.  
This is the same Posner & Fan paper as before, but scanned from the book in which it appeared. Some people might prefer to read from this copy, which has the figures inserted into the text.

Required

Location: Adele Simmons Hall (ASH) Room 112

09-10-2008 Wednesday  
ADD: Class | Lab | Training Session | Assignment | Reading/Listening | Event - DELETE: All

Reading/Listening  
Online Reading/Listening - Click to View/Listen

Continue reading Posner and Fan. There's now an alternative copy of the article, scanned from a book, that you can download, if you wish. Run yourself in the ANT task. Keep track of the three scores that you get when you're finished with the task.

Required

Location: Adele Simmons Hall (ASH) Room 112

02:30 PM - 03:50 PM  
Class  
Assignment  
Posner & Fan  
Continue reading Posner and Fan. There's now an alternative copy of the article, scanned from a book, that you can download, if you wish. Run yourself in the ANT task. Keep track of the three scores that you get when you're finished with the task.

Required

Location: Adele Simmons Hall (ASH) Room 112

09-15-2008 Monday  
ADD: Class | Lab | Training Session | Assignment | Reading/Listening | Event - DELETE: All

Reading/Listening  
Online Reading/Listening - Click to View/Listen

This paper required for Weds. writing assignment. Read this paper first. This is a difficult paper. It's important to look at Figure 1 to grasp what is meant by metric vs. non-accidental properties of an object.

Required

09-17-2008 Wednesday  
ADD: Class | Lab | Training Session | Assignment | Reading/Listening | Event - DELETE: All

Scheduled Class  
Collect your ANT results!  
If you have not already done so, run yourself in the ANT task and send your results to neil. 

Required

Location: Adele Simmons Hall (ASH) Room 112

02:30 PM - 03:50 PM  
Class  
Assignment  
Assignment 2: Theories of object recognition  
See the assignment.

Required

Location: Adele Simmons Hall (ASH) Room 112

https://athena.hampshire.edu/S296026/modules.php?op=modload&name=NS-Courseinfo&file=syllabus
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**Reading/Learning**

- **Online Reading/Listening - Click to View/Listen**
**Reading/Listening**

**Online Reading/Listening - Click to View/Listen**

[Edit | Delete | Other Other]


**Required**

12:00 PM - 01:00 PM

**Event**

**Gary Marcus: Cognitive Science noon talk, ASH lobby**

[Edit | Delete | Other Other]

FREE LUNCH IN THE ASH LOBBY (If you come to the talk).

Location: Adele Simmons Hall (ASH) Room 112

**Required**

02:30 PM - 03:50 PM

**Class**

**Gary Marcus visits our class!**

[Edit | Delete | Other Other]

Gary will give the noon Cognitive Science talk in the ASH lobby and then visit our class. Get your questions ready.

Location: Adele Simmons Hall (ASH) Room 112

**Required**

10-13-2008 Monday

02:30 PM - 03:50 PM

**ADD:**

**Event**

NO CLASS: OCTOBER BREAK

[Edit | Delete | Other Other]

Location: Adele Simmons Hall (ASH) Room 112

**Required**

10-15-2008 Wednesday

ADD: **Class | Lab | Training Session | Assignment | Reading/Listening | Event**

**ADD: All**

**Reading/Listening**

**Online Reading/Listening - Click to View/Listen**

[Edit | Delete | Other Other]

Listen to a discussion between Mahzarin Banaji and Anthony Greenwald about the history and significance of the Implicit Association Test (IAT).

Note that a slightly edited transcript of the video also appears below the video window on the webpage. The video is on the Edge website, which has lots of fun cog sci material.

**Required**

**Reading/Listening**

**Online Reading/Listening - Click to View/Listen**

[Edit | Delete | Other Other]

This is an optional item. It’s Banaji’s lecture at the Beyond Belief conference on science and religion sponsored by the Salk Institute in 2006. She’s very passionate here about the need for psychological science. The bonus on this clip is that you can also listen to Richard Dawkins and Scott Atran, a distinguished cognitive anthropologist. The other sessions on this site are also well worth listening to.

**Supplemental**

**Reading/Listening**

**Online Reading/Listening - Click to View/Listen**

[Edit | Delete | Other Other]


**To see the New Yorker cover discussed in this opinion piece of Banaji's, go to the Gallery on this course website.**

**Required**

**Reading/Listening**

**Online Reading/Listening - Click to View/Listen**

[Edit | Delete | Other Other]


**Required**

**Reading/Listening**

**Online Reading/Listening - Click to View/Listen**

[Edit | Delete | Other Other]


**Required**

**Reading/Listening**

**Online Reading/Listening - Click to View/Listen**

[Edit | Delete | Other Other]


**This newspaper piece describes disagreements in the social psychology and legal communities about legal implications of work on implicit prejudice.**

**Required**

**Reading/Listening**

**Online Reading/Listening - Click to View/Listen**

[Edit | Delete | Other Other]


https://athena.hampshire.edu/S296026/modules.php?op=modload&name=NS-Courseinfo&file=syllabus
CS-0245 - Minds, Brains, and Machines: The 50 Key Ideas ::

02:30 PM - 03:50 PM

Class

Current events interlude I [ ]

We will spend 2 or 3 class meetings, with reading and writing on applications of cog sci to current events.

Location: Adele Simmons Hall (ASH) Room 112

Required

Assignment

Implicit Associations [ ]

Go to Project Implicit and run yourself in their "Featured Task: U.S. Election 2008 IAT" [here]. After running yourself, explore the rest of the Project Implicit website.

Location: Adele Simmons Hall (ASH) Room 112

Required

10-20-2008 Monday

ADD: Class | Lab | Training Session | Assignment | Reading/Listening | Event · DELETE: All

Reading/Listening

Online Reading/Listening - Click to View/Listen [ ]

Story on the AP-Yahoo! racism in the 2008 presidential election poll, conducted in collaboration with Stanford University.

Required

Reading/Listening

Online Reading/Listening - Click to View/Listen [ ]


Read Haidt's piece and also read the responses (click continue at the bottom of the piece). Or just click here.

Required

Reading/Listening

Online Reading/Listening - Click to View/Listen [ ]

Slides from today's lecture.

Required

Class

Scheduled Class [ ]

Location: Adele Simmons Hall (ASH) Room 112

Required

02:30 PM - 03:50 PM

Reading/Listening

Online Reading/Listening - Click to View/Listen [ ]


Required

10-22-2008 Wednesday

ADD: Class | Lab | Training Session | Assignment | Reading/Listening | Event · DELETE: All

Reading/Listening

Online Reading/Listening - Click to View/Listen [ ]

Slides from today's lecture.

Required

Reading/Listening

Online Reading/Listening - Click to View/Listen [ ]


Slide show accompanying the Iacoboni piece can be found here. Supplemnetal

Reading/Listening

Online Reading/Listening - Click to View/Listen [ ]


Supplemental

Class

More on the Election. Readings listed for this class are posted to support the lecture. Interested students can pursue them. [ ]

Location: Adele Simmons Hall (ASH) Room 112

Required

Assignment

Assignment 4: The 2008 Presidential Election [ ]

Location: Adele Simmons Hall (ASH) Room 112

Required

10-27-2008 Monday

ADD: Class | Lab | Training Session | Assignment | Reading/Listening | Event · DELETE: All

https://athena.hampshire.edu/S296026/modules.php?op=modload&name=NS-Courseinfo&file=syllabus
## Class Schedule

### 11-03-2008 Monday
- **Time**: 10:30 AM - 11:50 AM
- **Event**: Training Session
- **Location**: Adele Simmons Hall (ASH) Room 112
- **Supplemental Reading**: Memory: Basic concepts
  - **Location**: Corkin's homepage.
  - **Description**: Corkin's homepage provides background for the lecture.

### 10-29-2008 Wednesday
- **Time**: 10:30 AM - 11:50 AM
- **Event**: Training Session
- **Location**: Adele Simmons Hall (ASH) Room 112
  - **Location**: [Nudge](https://nudge.org/+nudge/)
  - **Description**: Nudge is a journal article that provides background for the lecture.

### 11-10-2008 Monday
- **Time**: 10:30 AM - 11:50 AM
- **Event**: Training Session
- **Location**: Adele Simmons Hall (ASH) Room 112
  - **Location**: [Nudge](https://nudge.org/+nudge/)
  - **Description**: Nudge is a journal article that provides background for the lecture.

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- **Time**: 10:30 AM - 11:50 AM
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  - **Location**: Corkin's homepage.
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- **Location**: Adele Simmons Hall (ASH) Room 112
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- **Time**: 10:30 AM - 11:50 AM
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  - **Description**: Nudge is a journal article that provides background for the lecture.

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- **Time**: 10:30 AM - 11:50 AM
- **Event**: Training Session
- **Location**: Adele Simmons Hall (ASH) Room 112
- **Supplemental Reading**: Memory: Basic concepts
  - **Location**: Corkin's homepage.
  - **Description**: Corkin's homepage provides background for the lecture.

### 11-10-2008 Monday
- **Time**: 10:30 AM - 11:50 AM
- **Event**: Training Session
- **Location**: Adele Simmons Hall (ASH) Room 112
  - **Location**: [Nudge](https://nudge.org/+nudge/)
  - **Description**: Nudge is a journal article that provides background for the lecture.
11-12-2008 Wednesday

02:30 PM - 03:50 PM

Class

Scheduled Class

Edit | Delete | <<< <<< < Nudge >= >> >>> ]
Location: Adele Simmons Hall (ASH) Room 112
Required

Assignment

Assignment 5: Journal article dissection

Edit | Delete | <<< <<< < Nudge >= >> >>> ]
This is an exercise in how to think like a cognitive scientist.
Location: Adele Simmons Hall (ASH) Room 112
Required

ADD: Class | Lab | Training Session | Assignment | Reading/Listening | Event - DELETE: All

Reading/Listening

Online Reading/Listening - Click to View/Listen

This paper is the source of the fMRI imagery that shows past memory and future imagination using overlapping brain circuitry. Supplemental

This is the classic "What's in the drawer" vs. "How did you find out" study by Alison Gopnik. Supplemental

General review of the link between past and future mental time travel. Supplemental

This is a clear and, to my mind, deeply humanistic statement by Tulving of his hypothesis about mental time travel. Sometimes authors make good use of the opportunity to write a book chapter. Supplemental

This paper reviews 20 years of research on the patient K.C. It includes considerable detail on his lesion and on the methodologies that were used to investigate his memory. Supplemental
11-17-2008 Monday

02:30 PM - 03:50 PM

Class

Language I [ Edit | Delete | <<<< << < Nudge > >> ]
Location: Adele Simmons Hall (ASH) Room 112
Required

Reading/Listening

Online Reading/Listening - Click to View/Listen

Edit | Delete | <<<< << < Nudge > >> ] Slides from the day's lecture
Required

Add: Class | Lab | Training Session | Assignment | Reading/Listening | Event

11-19-2008 Wednesday

02:30 PM - 03:50 PM

Class

Language II [ Edit | Delete | <<<< << < Nudge > >> ]
Location: Adele Simmons Hall (ASH) Room 112
Required

Online Reading/Listening - Click to View/Listen

Required

Reading/Listening

Online Reading/Listening - Click to View/Listen

Required

02:30 PM - 03:50 PM

Class

Neural circuits: Poking around

Please Note: The chapters from Gazzaniga's Intro to Cognitive

https://athena.hampshire.edu/S296026/modules.php?op=modload&name=NS-Courseinfo&file=syllabus
### CS-0245 - Minds, Brains, and Machines: The 50 Key Ideas

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<td>ADD: Event</td>
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<td>Required</td>
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<td>Slides from the day’s lecture. Required</td>
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Neuroscience are optional.
Location: Adele Simmons Hall (ASH) Room 112
Required
Supplemental Readings/Listenings

- **Reading/Listening**
  - **Online Reading/Listening - Click to View/Listen**
    - EDIT | DELETE | <<<< << < Nudge > >>> ]
    - ELIZA resources.
    - For those who wish to follow up on the ELIZA program, its history, and its relation to the Turing test.
    - Supplemental

- **Reading/Listening**
  - **Online Reading/Listening - Click to View/Listen**
    - EDIT | DELETE | <<<< << < Nudge > >> ]
    - Required

- **Reading/Listening**
  - **Online Reading/Listening - Click to View/Listen**
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    - Required

- **Reading/Listening**
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    - EDIT | DELETE | <<<< << < Nudge > >> ]
    - Required

- **Reading/Listening**
  - **Online Reading/Listening - Click to View/Listen**
    - EDIT | DELETE | <<<< << < Nudge > >> ]
    - Supplemental

02:30 PM - 03:50 PM

- **Class** Philosophy of Mind
  - EDIT | DELETE | <<<< << < Nudge > >> ]
  - Location: Adele Simmons Hall (ASH) Room 112
  - Required

12-10-2008 Wednesday

- **ADD:** Class | Lab | Training Session | Assignment | Reading/Listening | Event

- **Reading/Listening**
  - **Online Reading/Listening - Click to View/Listen**
    - EDIT | DELETE | <<<< << < Nudge > >> ]
    - Slides from the final class meeting.
    - Required

02:30 PM - 03:50 PM

- **Class** What's it all about?
  - EDIT | DELETE | <<<< << < Nudge > >> ]
  - Location: Adele Simmons Hall (ASH) Room 112
  - Required

12-12-2008 Friday

- **ADD:** Class | Lab | Training Session | Assignment | Reading/Listening | Event

- **Assignment** Final Assignment
  - EDIT | DELETE | <<<< << < Nudge > >> ]
  - Location: Adele Simmons Hall (ASH) Room 112
  - Required

08:30 AM - 04:00 PM

- **Event** Final assignment & all work for class due
  - EDIT | DELETE | <<<< << < Nudge > >> ]
  - Portfolio including final assignment & all work for the class, in a manila envelope, due in Neil's mailbox CS office by 4:30 pm.
  - Location: Adele Simmons Hall (ASH) Room 112
  - Required

Supplemental Readings/Listenings

- **ADD:** Reading/Listening
- **DELETE:** All

- **Reading/Listening**
  - **Online Reading/Listening - Click to View/Listen**
    - EDIT | DELETE
    - Supplemental

- **Reading/Listening**
  - **Online Reading/Listening - Click to View/Listen**
    - EDIT | DELETE
    - Supplemental

- **Reading/Listening**
  - **Online Reading/Listening - Click to View/Listen**
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