<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Days and Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor Boyle</td>
<td><a href="mailto:mboyle@ucsd.edu">mboyle@ucsd.edu</a></td>
<td>Friday, 2-4 pm</td>
<td>CSB 130</td>
</tr>
<tr>
<td>Tiffany</td>
<td><a href="mailto:tchokry@ucsd.edu">tchokry@ucsd.edu</a></td>
<td>Tuesday, 12:30-1:30pm</td>
<td>PC Theatre Lobby</td>
</tr>
<tr>
<td>Bora</td>
<td><a href="mailto:bmutluog@ucsd.edu">bmutluog@ucsd.edu</a></td>
<td>Wednesday 4-5 pm</td>
<td>PC Jamba Juice</td>
</tr>
<tr>
<td>Jon</td>
<td><a href="mailto:jahern@ucsd.edu">jahern@ucsd.edu</a></td>
<td>Tuesday, 2-3pm</td>
<td>CSB 114</td>
</tr>
<tr>
<td>Bryan</td>
<td><a href="mailto:blt010@ucsd.edu">blt010@ucsd.edu</a></td>
<td>Thursday, 1-2pm</td>
<td>Sequoyah 142</td>
</tr>
<tr>
<td>Corey</td>
<td><a href="mailto:yiz329@ucsd.edu">yiz329@ucsd.edu</a></td>
<td>Wednesday, 1-2pm</td>
<td>CSB 231</td>
</tr>
<tr>
<td>Meri</td>
<td><a href="mailto:myedigar@ucsd.edu">myedigar@ucsd.edu</a></td>
<td>Tuesday, 12:30 - 1:30 pm</td>
<td>PC 4th Floor</td>
</tr>
<tr>
<td>Ilmaa</td>
<td><a href="mailto:ilhaque@ucsd.edu">ilhaque@ucsd.edu</a></td>
<td>Monday, 4-5:30pm</td>
<td>Audrey’s Cafe</td>
</tr>
<tr>
<td>Ana</td>
<td><a href="mailto:achkhaid@ucsd.edu">achkhaid@ucsd.edu</a></td>
<td>Wednesday, 12-1pm</td>
<td>CSB 215</td>
</tr>
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Important Information

• Midterm 1
  ○ Grades have been released
  ○ See your TA/IA if you don’t see a grade

• Extra Credit
  ○ EC quizzes are based on assigned readings
    • Taken on Canvas
    • This week reading is on Dr. Taylor Scott - Cognition, Distributed
    • EC quiz will be posted by Monday at 4PM

• Week 7 Quiz
  ○ Online, don’t forget to do it
  ○ Opens next week at 2pm
Friday Section:

- For week 10, do you want to have section?
  - The alternates would be attending one of the Monday or Wednesday section’s
  - The quiz would be online starting on Monday and end before Midterm 3
  - Keep in mind: the quiz will cover content that will be on Midterm 3 (which is that Thursday)
Last Week’s Topics

- Lecture 8 | Michael Allen - Situated Cognition
Review Question (1 of 2)

- Is the internet making us dumber?
- Tenets of Cognition
  - Examples from lecture
  - Examples from reading
- What is situated Cognition?
- What is Cognitive Offloading?
- Who is Andy Clark and what did he believe?
Review Question (2 of 2)

- What is the Scaffolded Mind Theory?
- What is the Theory of Extended Mind?
- What is the Hypothesis of Extended Cognition?
Is the internet making us dumber?

- The internet is seen as an extension of our minds
- Enhances our knowledge by providing a ground for quick communication, easy data access, and cognitive enhancement
- Media says the internet is making us dumber because of how reliant we are on it; we no longer have to remember as many things due to having the information at our fingertips
Tenets of Cognition

- Cognition occurs in body and brain
- The body and environment are part of our body and influence our inner cognition
- Action influences thought and thought influences action
Our brains are **NOT** solely responsible for our behavior to calculate the trajectory of catching a baseball.

- They run in a curved path and at different speeds to keep the ball pointing in a certain direction and moving in a straight line (This behavior is also seen in dogs).

- Example of *embodied and situated cognition in action*.
Examples from reading

- **Embodied Cognition:** The way in which the brain approaches the task of walking is already coded by the physical layout of the body—and as such, wouldn’t it make sense to think of the body as being part of our decision-making apparatus?

- **Extended Cognition:** Cognition is extended, outsourced, leaking from cranial slime into the material world—but like an octopuses tentacle, it can always dart back in.
What is Situated Cognition?

- The theory that knowledge cannot be separated from the context or situation in which it was acquired.

- **Changing Lane Example:**
  
  - Commonly used as an example to support the idea that majority of the brain processing is unconscious.
  
  - However, according to Situated Cognition, we only ‘know’ how to change lanes because we are **embedded or situated in the appropriate context**.
What is Cognitive Offloading?

- "The use of physical action to alter the information processing requirements of a task so as to reduce cognitive demand"

- Refers to our reliance on the external environment in order to reduce our cognitive demand.

- Internet
  - We’re offloading the task of knowing, remembering, and calculating into the internet
Who is Andy Clark and What did he believe?

- British philosopher
- Helped to develop a view called “Extended Mind”
- Clark believe it’s invalid to separate out tools in any judgment of human intelligence & that our mind is not just in our head, but is extended to the environment that support our cognitive resources
- In other words, he believe that the internet makes us smarter
What is the Scaffolded Mind Theory?

- Human cognitive capacities depend on and have been transformed by environmental resources
  - Have been preserved, built, or modified because of how they interact with our cognition
- Examples of this include the informational environments of our societies: culture, technology, and language.
What is the Theory of Extended Mind?

- The concept that our minds are *not just in our heads but extend into the world around us.*
- Books, notepads, phones, and even the internet, are part of our minds.
- **Thought Experiment:**
  - Otto who has Alzheimer's Disease and Inga who has normal functioning are both travelling to a museum simultaneously.
  - Otto has written all of his directions down in a notebook to serve the function of his memory while Inga is able to recall the internal directions within her memory.
  - This theory argues that the notebook is no different than the memory itself.
What is the Hypothesis of Extended Cognition?

- **Extended Cognition**: The idea that our cognition *extends* into the environment

- Cognition encompasses the brain, body, and *world*

- Examples include using tools in our environment to *enhance* our cognition, such as offloading our memory onto paper, using our phone apps, doing math on our calculators, etc.
Quiz Time!

- No talking, signaling, or communicating of any kind.
- Put away your books, notes, computers, phones, etc.
- Pen or pencil is okay (just make sure it’s a black pen and you press hard with a pencil).
- Write your name in the “Name” box, write and circle in your PID, and sign the academic integrity agreement.
- Bubble in this section
- Please have your student ID out when you turn in your quiz!
Write and circle in your PID

Write down your name here

Bubble in the current section

Sign and date here

Bubble in the answers