### Undergraduate Advising Office
### DEPARTMENT OF PSYCHOLOGY

**http://psychology.tamu.edu**

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**PLEASE NOTE**

To enroll in a 484-485, you must discuss it with the professor and complete a contract to be turned in to the PSYC Advising Office during open registration.

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<table>
<thead>
<tr>
<th>PROFESSOR (Area)</th>
<th># NEEDED Session</th>
<th>TOPICS</th>
<th>TASKS REQUIRED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smallman Social</td>
<td>485, 491 6 students</td>
<td>1. Social cognition, affect, judgment and decision-making, broadly construed. 2. Projects may include studies and research looking at counterfactual thinking, categorization, and a variety of lab-based tasks</td>
<td>• Running experimental sessions  • Coding/entering data  • Participating in discussions about ongoing lab projects  • Attend weekly lab meetings</td>
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<tr>
<td>Lench Social</td>
<td>485/491 10-15 students</td>
<td>1. Emotion and cognition</td>
<td>• Work with participants  • Code videos  • Enter data</td>
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<tr>
<td>Yamauchi Cognitive</td>
<td>485, 491 10 students</td>
<td>1. Emotion and cognition, music perception, unconscious processing</td>
<td>• Designing and administering experiments  • Developing stimuli  • Literature search</td>
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</table>
| **Grau**  
| **j-grau@tamu.edu**  
| Learning/Behavioral & Cellular Neuroscience | **485** | 1. Learning  
2. Spinal cord plasticity  
3. Recover after spinal injury | The work is conducted using animal subjects (rats). Tasks include surgery, behavioral testing, histology, cellular assays, and data entry. We are particularly interested in students seeking careers in medicine or neuroscience. Students must have a strong GPR (> 3.5) and SAT, GRE, or MCAT scores. Because intensive training is required, we seek students who can make at least a one year commitment |
| **Carlos Bolanos**  
| **bolanos-guzman@tamu.edu**  
| Neuroscience | **485/491**  
2-3 students | Mechanisms of stress and antidepressant response. | Student will work closely with senior graduate students offering support in daily tasks, learning behavioral and molecular techniques, as well as collecting and analyzing data. |
| **Vani Mathur**  
| **vmathur@tamu.edu**  
| Social & Neuroscience | **485 only for first semester RAs**  
5 students | • Pain Disparities  
• Experimental Social Psychology  
• Social modulation of pain  
• Social and Cultural Neuroscience  
• Pain Psychophysics | 1) Collecting data requires extensive training on psychophysical equipment. Therefore, a commitment of at least two semesters is strongly recommended.  
2) Support the set up and maintenance of the lab.  
3) Data entry.  
4) Assist with literature reviews - some RAs will be working directly with graduate students and/or post-doctoral fellows on specific projects. |

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<tr>
<th>Dr. Matthew Vess</th>
<th>485/491</th>
<th>Ongoing research focused on the construction and maintenance of meaning in life and a sense of personal identity.</th>
<th>Research assistants will help conduct experimental studies, prepare experimental data, and attend regular lab meetings that cover a variety of topics (e.g., preparation for graduate school, current research projects, etc.). Interested students should fill out an application form located here: <a href="https://psychology.tamu.edu/vess-485491/">https://psychology.tamu.edu/vess-485491/</a></th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="mailto:vess@tamu.edu">vess@tamu.edu</a> Social Psychology</td>
<td>12 students</td>
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<tr>
<td>Rachel Smith</td>
<td>485</td>
<td>Neuroscience of drug addiction</td>
<td>Task: Lab work involves behavioral experiments with drug self-administration in rats, and histology on brain tissue. Due to the technical training needed for these tasks, requirements include 10 hours/week, 1-2 year commitment, and GPA &gt;3.2. Can receive either PSYC or NRSC credit.</td>
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<tr>
<td><a href="mailto:rachelsmith@tamu.edu">rachelsmith@tamu.edu</a> Behavioral &amp; Cellular Neuroscience</td>
<td>2-3 students</td>
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<tr>
<td>Jessica Bernard</td>
<td>484/485 only</td>
<td>1. Learning &amp; Aging Using Neuroimaging and Brain Stimulation</td>
<td>• Students will help on a variety of studies investigating learning and aging. This work will take advantage of brain stimulation and brain imaging. Students will help primarily with running subjects on different tests on the computer, but also may help in administering the brain stimulation, as well as tests of balance. There will be a lot of time spent interacting with subjects from the subject pool, and from the Bryan-College Station community. Students will also help with entering data into spreadsheets and preparing data for analysis.</td>
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<tr>
<td><a href="mailto:Jessica.bernard@tamu.edu">Jessica.bernard@tamu.edu</a> Cognition &amp; Cognitive Neuroscience</td>
<td>Up to 4 students</td>
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| Dr. Isaac Sabat | We research all aspects of diversity in employment, including but not limited to a) disclosure of stigmatized identities (e.g., LGBT, pregnancy, religious, and political orientation minorities), b) intersectionality of multiple identities (e.g., experiences of black women), and allies in the workplace. | Assist with all aspects of the research process, including literature reviews, article reviews, weekly lab meetings, study design, data collection, data analysis, and writing. |
| sabatpsyclab@gmail.com | Industrial/Organizational | 4858 students |
| | 8 students |
| | 485 |
| | 4-5 Students |
| Fields | 1. Impulsivity and Smoking/Obesity |
| msferra@neo.tamu.edu | Clinical |
| Contact Michale Sferra at email above | • Running participants |
| | • Literature review |
| | • Data entry |
| | • Data analysis |
| Brian Anderson | Assist with lab operations, including data collection, management, and analysis. Students will also have the opportunity to attend lab meetings and contribute to discussions of research. |
| brian.anderson@tamu.edu | Cognition and Cognitive Neuroscience |
| (lab website: http://andersonlab.sites.tamu.edu/) | Cognitive neuroscience. The lab does behavioral and neuroimaging studies examining how learning influences what people pay attention to. |
| | 485 |
| | 5-6 students |

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### Rebecca Brooker
**rebeccabrooker@tamu.edu**

**Developmental psychologist,** but my technical area in the department is CCN

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<th>485/491</th>
<th>6 students</th>
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Developmental affective neuroscience; how biology and the environment interact to predict children's emotional development (though I'm also doing some stuff with mothers, so if students have a particular interest in parents, they might also be a good fit).

Students will largely be working with behavioral (emotion coding) and psychophysiological (EEG) data, as well as learning how to record neural and cardiac signals and helping with general lab setup.

### Bergman
**mindybergman@tamu.edu**

**I/O**

| 485 | 2-4 students |

1. Occupational health psychology, with emphasis on sex discrimination and other forms of workplace mistreatment, women in the leadership and workplace safety

- Transcribing and coding interviews
- Survey analysis
- Survey programming
- Weekly lab meetings

### MacNamara
**https://goo.gl/forms/udx1NrQYPzefYTxK2 (complete form)**

**Clinical**

| 485/491 | Up to 15 students |

Emotion and anxiety in the brain

- Run neuroscience experiments, in which you will collect EEG and/or fMRI data from human participants.

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| Dr. Steve Rholes  
s-rholes@tamu.edu  
Social Psychology | 485  
2 students | • self esteem and its relationship to adult attachment styles  
• Meet with Dr. Rholes to discuss research on a fairly regular basis. Supervising up to 10 students in a research lab where they will be doing tasks on a computer. |
|-----------------|------|---------------------------------------------------------------|
| Dr. Winfred Arthur, Jr.  
w-arthur@tamu.edu  
I-O Psychology | 484/485  
6 students | Personnel psychology (e.g., personnel selection, training, etc.)  
Proctor experiments, conduct literature reviews, etc. |
| Dr. Gerianne Alexander  
Brain & Gender Lab | 485  
6 students | • work on a research project looking at gender differences in play behavior in children  
• gain experience running participants through a variety of studies, learn how to use biometric technology such as eye tracking and actiography, and become better acquainted with experimental research. |

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**Joseph Orr**  
joseph.orr@tamu.edu  
**Cognition & Cognitive Neuroscience**

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<tr>
<th>Task: running research participants in psychology and neuroscience experiments, literature reviews, preprocessing data, participating in lab meetings.</th>
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<td>485 or 491 4-6 students</td>
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| • Research in our lab examines how the brain keeps us on task while shielding goals from distraction.  
  - These executive functions allow us to focus on work and multitask more efficiently.  
  - These abilities are disrupted in illnesses such as addiction and schizophrenia.  
  - Most of our work involves healthy adults, but may involve patient populations.  
  - We use a variety of neuroscience techniques such as magnetic resonance imaging (MRI) and brain stimulation.  
  - This research will give you excellent experience for applying to medical school or graduate school in cognitive/health sciences.  
  - Students with experience in programming (python, matlab, R) are highly encouraged to apply |

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Dr. Darrell Worthy
worthyda@tamu.edu
Cognition and Cognitive Neuroscience

485, 491
12 students

The Worthylab focuses on examining human learning and decision-making using behavioral experiments, neuroscience methods such as fMRI, galvanic skin response, genetic testing, or physiological methods, and mathematical and computational modeling of behavior. We're interested in identifying the algorithms the brain utilizes when learning and making decisions. A second line of work is more applied. Our lab uses well-developed experimental paradigms from cognitive science to examine issues such as how depression, anxiety, substance use, or lack of inhibition affect how people respond to rewards during decision-making, how personality characteristics and individual differences predict who will "choke under pressure", how aging or cognitive development affect learning related processes, and how working memory capacity, stress, or other environmental or individual differences factors affect cognitive performance. For more information you can look at some of our published papers at worthylab.org

Tasks - The primary responsibility of research assistants in the Worthylab is to help run human participants in our experiments. Other minor duties include testing whether experiment programs run correctly prior to running participants, and data entry such as listing data file names for analysis. Students have the option of becoming more involved in research by designing their own project or running studies that require special attention. Many students take 485 and then conduct their own research project as a 491 student. Our lab accommodates students wishing to simply earn some research credit as well as students who would like more advanced preparation for graduate school.

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**Dr. Steven Smith**  
**Cognition**  
Send all inquiries to Lab Coordinator: Alan Hernandez, alan_hdz3@tamu.edu  
<table>
<thead>
<tr>
<th>485/491</th>
<th>10-12 students</th>
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<td>Memory and Creative Cognition</td>
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| **Dr. Shoshana Eitan**  
Psychological & Brain Sciences  
Contact: seitan@tamu.edu |
| 485/491 | 4-6 students |
| We are a behavioral neuroscience lab, using a rodent model to study the effect of social environment of the development of opioid addiction. |

A 3 semester commitment (summer, fall, spring) strongly preferred but not required. Students with GPA 3.0+ and/or who have taken introductory neuroscience courses (e.g. PSYC 335, NRSC 277, or equivalent) will be given preference, but all applicants will be considered. Specific duties include basic lab maintenance, assistance with behavioral and molecular experiments, data collection, entry, and processing, and attendance at a weekly journal club meeting. Potential for independent research project/honors thesis available for qualified applicants.

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