

University of California, Irvine



**Department of Cognitive Sciences
Graduate Student Handbook
(2017-18)**

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A. Cognitive Sciences at UC Irvine

Cognitive science is a multidisciplinary field integrating behavioral research, computational models, and neuroscience. UC Irvine provides the perfect modern environment for research training, as 1 of 62 universities in the U.S. and Canada elected to membership in the prestigious Association of American Universities, and the 9th best public university in the U.S. (U.S News & World Report, 2017).

The Department of Cognitive Sciences at UC Irvine has a tradition of excellence in quantitative approaches to understanding the brain, perception, cognition, and behavior. The department maintains its historic strengths in mathematical psychology, and has seen them expand to include computational approaches to studying cognition. The department has also grown a strong and broad research program and graduate concentration in cognitive neuroscience, with expertise ranging from language and memory to brain-computer interfaces. The department continues to specialize in vision and auditory research, and has newer research areas in the language sciences, cognitive development, and cognitive robotics.

The Department has a strong focus on [research](#), with most of our 27 faculty holding one or more large extramural grants. Our faculty includes 5 members of the National Academy of Sciences, 9 fellows and 2 William James fellows of the American Psychological Society, 8 American Psychological Association fellows, and 5 fellows of the Society for Experimental Psychology, and 2 recipients of the National Academy of Sciences Troland Award given to young scientists.

The Department has affiliations with other departments, institutes, and centers on campus. These are in areas such as the biological sciences, machine learning, and statistics, and include the Institute for Mathematical Behavioral Sciences, the Center for Cognitive Neuroscience & Engineering, the Center for the Neurobiology of Learning and Memory, the Institute for Memory Impairments and Neurological Disorders, and the Center for Hearing Research.

[Graduate-level](#) training is offered in the following areas: (i) Cognition and Information Processing, (ii) Mathematical Behavioral Science, (iii) Perception and Action, (iv) Language, and (v) Cognitive Neuroscience.

A choice of two [undergraduate](#) majors is offered:

- The curriculum for the B.A. in Psychology is designed to provide students with a strong foundation in general psychology, and a suitable background for postgraduate training and careers in all branches of psychology.
- The B.S. in Cognitive Sciences is structured to prepare students for graduate study in Cognitive Sciences or related disciplines by providing them with a challenging introduction to the field that is strongly grounded in theory and empirical approaches emphasizing experimental/computational methods.

B. PhD Program Requirements

Students can pursue a Ph.D. in one of two tracks: Psychology or Psychology with a concentration in Cognitive Neuroscience. The two training tracks have identical research requirements and largely overlapping (but slightly different) course requirements.

Research Expectations

All students are expected to carry out theoretical/empirical research throughout their graduate training starting in the first year of the program. Students should work closely with a faculty advisor to build their individual research plan, formulated within a timeline commensurate with program requirements. Students should initiate a research project of a scope and nature that is potentially publishable in a professional journal in the **first year** with the aim of completing this project by the end of the **second year**. By the time students reach the dissertation defense, they are expected to have completed 2-3 projects that are published, or in some stage of submission, and have participated in international conferences within their discipline.

NSF GRFP Fellowship

Students who are eligible for the NSF GRFP fellowship (<http://www.nsfgrfp.org>) are expected to submit an application in the fall of their first year. This is an opportunity for you to formalize your research plan and gain some experience writing a grant proposal. The lucky few who obtain this prestigious fellowship get funding for three years which allows them to opt out of TA requirements and focus on research.

Remember to emphasize the “Broader Impacts” component of the proposal and demonstrate clear “ownership” of the research plan. The School of Social Sciences provides writing workshops in the fall, and faculty mentoring is provided in the Proseminar (Psych 202A) course.

Coursework

Students must complete a total of twelve courses, distributed across specific disciplines as specified by the training track (Cognitive Science or Cognitive Neuroscience). The bulk of coursework should be completed within the first two years of the program. Details on the required course distribution are shown in the tables below.

2nd Year Examination

All students are required to complete a written + oral evaluation of their research activities during the fall quarter of their second year. Under consultation with your faculty advisor, you must put together an advisory committee consisting of 3 faculty members – your advisor plus 2 additional members of whom at least one should be a Cognitive Sciences faculty member.

You should schedule a meeting date during the spring quarter of your **first year** for your committee to discuss expectations for this evaluation including 1) identifying a reasonable scope for a topic within your area(s) of research interest and 2) identifying key resources within the published literature with which you must be familiar. You then must write a critical review of this literature, in this identified area of specialization, during the **summer before your second year**.

At the beginning of the **fall quarter of your second year**, your committee and you must meet in order for you to be critically evaluated on your literature review. The goal of this evaluation is to identify your strengths and weakness which will then be used to formulate a research and coursework plan catered to your progress in the program. Anticipate being “examined” so these limits can be identified. Student who do not pass the 2nd year exam will have the opportunity to repeat the exam in the winter quarter. A subsequent failure results in exiting the program.

Pre-Advancement Talk

By the start of the third year, you should have **completed** a research project of a scope and nature that is potentially publishable in a professional journal. You will be expected to give a talk describing this work to the department prior to advancement, usually in the **third year**. The talk should be constructed for the targeted audience of cognitive science faculty and graduate students. This talk is **required** prior to your advancement to candidacy.

Advancement Examination

The advancement examination consists of a written + oral presentation to your advancement committee. The goal of the advancement is 1) to demonstrate an understanding of the literature and issues in your area of research interest and 2) to show sufficient preparation and creativity to undertake planning for a complete dissertation project (*e.g.*, by describing a possible experimental design or outline a possible theoretical development).

The written document should be constructed as an NIH NRSA Predoctoral Fellowship application, using the Individual Fellowship Application Guide SF424 (R&R).

See: <http://grants.nih.gov/grants/how-to-apply-application-guide.htm>

Forms Version D as a guideline for due dates on and before January 24, 2018.

Forms Version E as a guideline for due dates on and after January 25, 2018

Your advancement committee must consist of **five** members: the chair + 4 additional members. The chair and at least two additional members must hold either a primary or joint appointment in this department. One member must have **no affiliation** with this department.

For information about committee membership, see page 64 of the Graduate Policies and Procedures handbook: <https://www.grad.uci.edu/forms/academics/Graduate-Policies-and-Procedures.pdf>

Your committee must indicate whether you have passed the advancement by completing the “Ph.D. Form I - Advancement to Candidacy Ph.D. Degree” form available at: <https://www.grad.uci.edu/forms/index.php>

Students are encouraged to advance by the end of their third year. This timeline ensures normative progression through the program, and also allows time for the written document to be submitted to NIH for an NIH NRSA predoctoral fellowship (if the student and advisor choose to do so). In some situations, the dissertation proposal presentation – proposal for new research that, when completed, will comprise the final dissertation – may take place as part of the examination for Advancement to Candidacy. In these cases, the five-member committee will evaluate the merits of the dissertation proposal as part of the advancement.

Dissertation

The final examination for the PhD is the Dissertation Defense. For a successful defense, you must submit a written document describing a program of original, publishable research for evaluation to a committee of **three**, and publicly present and defend this research program.

You must schedule a meeting with your committee of three to formally propose and have approved the dissertation content **prior** to the final dissertation defense. This may happen when the Advancement to Candidacy

exam takes place or in a separate meeting. This meeting should take place no later than three months before the final defense, so that there is enough time to incorporate suggestions and changes required by the committee.

When you schedule your defense, remember that you are required to defend the dissertation publicly in a forum that has been advertised at least two weeks prior to the scheduled date. The department office will send out an announcement about your defense after receiving your defense title, abstract and date/time/location of the defense. The form to obtain your Ph.D. degree is the “Ph.D. Form II - Signature Page / Report on Final Examination for the Ph.D. Degree” form available at: <https://www.grad.uci.edu/forms/index.php>.

You must have fulfilled all requirements for the Ph.D. degree within three years after advancement to candidacy.

C. Timetable of Graduate Studies

Below is a timetable of the program requirements and expectations. *The normal time for advancement to candidacy is three years. The normal time for completion of the Ph.D. is five years, and the maximum time permitted is six years.*

It is strongly recommended that you complete all of your degree requirements within the normative timeframe as outlined below. Completing degree requirements within the normative timeframe keeps you on track for completing your doctoral degree within 5 years, opens up additional funding opportunities, keeps you in good department standing, and gives you the opportunity to make informed research and coursework decisions based on committee feedback.

Year 1	Fall	<p>Submit an NSF Graduate Research Fellowship application (Nov. deadline)*</p> <ul style="list-style-type: none"> - Research component should be prepared in consultation with advisor - Requires additional personal statement - Requires 3 letters of recommendation - All students must prepare the research component <p><i>*Note: Only those who hold United States citizenship, national, or permanent resident status by the application deadline are eligible to apply.</i></p>
	Winter	<p>Be <u>engaged</u> in an independent theoretical/empirical research project, expected to be completed sometime during your second year</p>
	Spring	<p>Form a 3-person advisory committee</p> <ul style="list-style-type: none"> - Your advisor + 2 committee members (one must be a Cog Sci faculty member) <p>Prepare a reading list for 2nd year examination</p>
	Summer	<p>Complete the written component of the 2nd year examination</p> <ul style="list-style-type: none"> - A critical review of work in your research area formatted as a review journal article
Year 2	Fall	<p>2nd year examination</p> <ul style="list-style-type: none"> - Committee meeting with oral examination

Year 3		<p>Pre-advancement talk</p> <ul style="list-style-type: none"> - 20 min talk given as part of the colloquium series <p>Advancement examination</p> <ul style="list-style-type: none"> - Written research proposal (NIH NRSA format), provided to your committee 2 weeks in advance of meeting - Oral examination with committee (your advisor + 4 additional members, one of whom is <u>not</u> affiliated with our department)
Year 4		<p>Be <u>engaged</u> in an independent theoretical/empirical research project</p>
Year 5		<p>Dissertation</p> <ul style="list-style-type: none"> - Requires a committee of three (your advisor + 2 other faculty) - Prepare a written dissertation describing original publishable research, provided to your committee 2 weeks in advance of defense - Give a public presentation and defense. <i>(Send defense information to the department administrative office at least two weeks prior to scheduled date for dissemination.)</i>

Required Coursework

You must pass (with a grade of B or above) 9 required courses **plus** 3 elective courses for a total of 12 total required courses. Required coursework is detailed below with specific course requirements for the two training tracks indicated in [brackets].

Only the grades A+, A, A-, B+, B, and S represent satisfactory scholarship and may be applied towards advanced degree requirements. A UCI course in which a grade of B- is earned may be accepted, via a formal petition process, in partial satisfaction of the degree requirements if the student has a grade point average of at least 3.0 in all courses applicable to the degree. Graduate students may not apply courses graded Pass/Not Pass toward any degree or satisfactory progress requirements. A grade point average below the B level (3.0 on a 4.0 scale) is not satisfactory, and a student whose grade point average is below that level is subject to academic disqualification.

REQUIREMENTS FOR THE DOCTORAL DEGREE IN PSYCHOLOGY

<p>Cognitive & Brain Sciences Core¹ Psych 210A: Intro to Cognitive & Brain Sciences I: Perception Psych 210B: Intro to Cognitive & Brain Sciences II: Cognition</p>
<p>Quantitative² (3 required) [Required] Psych 203A: Discrete Math & Probability Psych 203B: Intro to Mathematical Statistics Psych 203C: Algorithmic Statistics Psych 203D: Applied Mathematics for Cognitive Sciences Research Psych 214: Bayesian Cognitive Modeling</p>

<p>Computational Methods³ (2 required)</p> <p>[Required] Psych 205A: Computational & Research Methods w/ Matlab Psych 205B: Running Experiments Using Matlab Psych 205C: Computational Statistics</p>
<p>Cognitive Science Core (2 required)</p> <p>Psych 211-219</p>
<p>Electives (3 required)</p>

REQUIREMENTS FOR THE DOCTORAL DEGREE IN PSYCHOLOGY (with a Concentration in Cognitive Neuroscience)

<p>Cognitive & Brain Sciences Core¹</p> <p>Psych 210A: Intro to Cognitive & Brain Sciences I: Perception Psych 210B: Intro to Cognitive & Brain Sciences II: Cognition</p>
<p>Quantitative² (2 required)</p> <p>[Required] Psych 203A: Discrete Math & Probability Psych 203B: Intro to Mathematical Statistics Psych 203C: Algorithmic Statistics Psych 203D: Applied Mathematics for Cognitive Sciences Research Psych 214: Bayesian Cognitive Modeling</p>
<p>Computational³ (1 required)</p> <p>Psych 205A: Computational & Research Methods w/ Matlab Psych 205B: Running Experiments Using Matlab Psych 205C: Computational Statistics</p>
<p>Neuroscience Methods (2 required)</p> <p>Psych 261 – 269</p>
<p>Neuroscience (2 required)</p> <p>Psych 236: Multivariate time series analysis Psych 265: Intro to fMRI Psych 268A: Computational neuroscience</p>
<p>Electives (3 required)</p>

REQUIREMENTS FOR THE JOINT M.S. IN STATISTICS AND DOCTORAL DEGREE IN PSYCHOLOGY⁴

<p>Intermediate Probability and Statistical Theory</p> <p>Stats 200A Stats 200B Stats 200C</p>

Statistical Methods for Data Analysis II Stats 202 or Stats 211
Statistical Methods for Data Analysis III Stats 203 or Stats 212
Statistical Methods I: Linear Models Stats 210
Introduction to Bayesian Data Analysis Stats 205
Seminar in Statistics (3 required) Stats 280
Electives (5 required) Two (2) elective graduate courses offered by the Department of Statistics Three (3) electives from the Ph.D. program in Cognitive Sciences: <ul style="list-style-type: none"> • Psych 203C, Psych 205A, Psych 205B, Psych 205C, Psych 214, Psych 237, Psych 236, Psych 265, Psych 268A

Coursework Notes:

¹ Psych 210A & 210B: The cognitive and brain sciences core courses discuss models of cognition and evidence linking cognition and the brain. Psych 210A focuses on visual, auditory, and somatic perception and bottom-up mechanisms of attention; whereas, Psych 210B focuses on emotion, top-down attention, goal-directed behavior, categorization, judgment, and decision-making.

² Psych 203A, 203B, 203C, 203D, & 214: Quantitative research methodology courses that cover the areas of probability, statistics, and experimental design. *Completion of the quantitative research methods sequence may be extended over two years if warranted by the background or needs of the student. This is approved in consultation with your primary advisor and the Graduate Director.*

³ Psych 205A, 205B & 205C: Computational research methods courses that teach programming for experiments and data analysis. *Suitable substitutes may be made with written approval of Graduate Director (Interim) Vandekerckhove, and the Professor responsible for the substituted course. In order to advance to candidacy, students must fulfill the Ph.D. program’s computer-programming language by completing satisfactorily this computational research requirement, or by demonstrating proficiency in use of a programming language for cognitive sciences research as assessed by two faculty members and approved by the Graduate Director.*

⁴ The entire program of courses must be approved by the Statistics Department Graduate Committee. Students with previous graduate training in statistics may petition the Committee to substitute other courses for a subset of the required courses. Students are required to pass a written comprehensive examination ordinarily at the end of the first year covering the material in either STATS 202, STATS 203, and STATS 210 or STATS 210, STATS 211, and STATS 212. At the end of the second year, the student must pass a written comprehensive examination covering the material from STATS 200A-STATS 200B-STATS 200C.

Year 1 Recommended Coursework

A maximum of 2-3 formal courses are recommended per quarter to allow time to progress in your research activities. Students are strongly encouraged to complete all requirement coursework by the end of their second year in the program. To maintain full student status and to have focus on your graduate research in your second and subsequent years of study, you should enroll in Psych 290 (Dissertation Research) or Psych 299 (Individual Study) under your graduate advisor.

Fall	Winter	Spring
Psych 203A: Stats Psych 205A: Matlab	Psych 203 B or D: Stats Psych 205 B: Matlab Psych 210A: Core I (Perception)	Psych 203C or 214: Stats Psych 205 C: Comp stats Psych 210B: Core II (Cognition)
Psych 201A: Colloquium ⁴ Psych 202A: Proseminar ⁵	Psych 201B: Colloquium ⁴	Psych 201C: Colloquium ⁴

Coursework Notes:

⁴ Psych 201A, B & C (4 units total): The Cognitive Sciences Research Seminar. You are expected to enroll in this series during all quarters in residence **prior** to passage of the advancement-to-candidacy (for the PhD) examination. This research seminar is known as “Cog Sci Colloquium” and is held on Wednesdays at 12:00 pm in SBSG 1517.

⁵ Psych 202A (1 unit): Proseminar. This course will expose you to the work of the department faculty members and help your preparations to submit an NSF GRFP proposal.

Additional Notes:

- The department offers a year-long (2 hours per week) scientific writing course taught by Prof. Sarnecka. This course (Psych 229, Writing Workshop) is strongly recommended for students as they reach completion of their first research project, typically in the second or third year.
- Be certain to enroll in your graduate courses via WebReg **before** the end of the second week of class. There is a financial penalty if you fail to register on time. See: <http://www.reg.uci.edu/registrar/soc/webreg.html>
- A number of first-year students – you may be one of them - are supported by a teaching assistantship. Be careful not to overload yourself in your first year with too much difficult coursework and teaching assistant duties.

D. Course Information

The UCI Catalogue provides the official description of the Cognitive Sciences graduate program at: <http://catalogue.uci.edu/schoolofsocialsciences/departmentofcognitivesciences/#graduatetext>.

The requirements for you as a graduate student matriculating in 2017-18 are stated in the 2017-18 Catalogue and not in catalogues for any other year. The reason is that requirements can change from year to year.

E. Optional Master's Degree

NOTE: Although the Department does not have a terminal master's program, students may earn an optional master's degree as part of the Ph.D. program.

Students enrolled in the Psychology program may earn an M.A. degree in Psychology by completing the following requirements: The student must (1) complete the required course work as outlined above; (2) present a talk and submit an approved paper, both based on empirical/theoretical research, as described above; and (3) fulfill a computer-programming language requirement by completing satisfactorily the computational research methods sequence Psychology 205A-B or by demonstrating proficiency in use of a programming language for cognitive sciences research as assessed by two faculty members and approved by the Graduate Director.

Students enrolled in the concentration program in Cognitive Neuroscience may earn an M.S. degree in Cognitive Neuroscience by completing the following requirements: The student must (1) complete the required course work as outlined above; (2) pass the 2nd year examination, which requires both a written critical review of literature in the student's area of interest and an oral examination by the student's committee members; and (3) fulfill a computer-programming language requirement by completing satisfactorily the computational research methods sequence Psychology 205A-B or by demonstrating proficiency in use of a programming language for cognitive sciences research as assessed by two faculty members and approved by the Graduate Director.

Students enrolled in the Joint M.S. in Statistics and Ph.D. in Psychology, please visit <https://www.cogsci.uci.edu/graduate/requirements.php> for all program requirements.

In order to be granted the Master's Degree, you need to complete the Advancement to Candidacy/Final Degree Report – Master's Degree Comp Exam" form available on the Office of Graduate Studies website at: <https://www.grad.uci.edu/forms/index.php>.

Why should you do it? If you want to gain teaching experience at UCI during the summer and want to teach an upper-division course, a Master's degree is required in addition to advancing to candidacy for the Ph.D. Coordinate with Graduate Director (Interim) Vandekerckhove, depending on your program, and with Graduate Office Manager John Sommerhauser to get your Master's degree application underway when the time comes. Make sure to submit a copy of the signed and completed form to the department administrative office for our records.

F. Financing Your Graduate Education

One of the highest priorities for the School and campus administration is funding for graduate students. Ph.D. students in our program are supported by a combination of fellowships, teaching assistantships, graduate research assistantships, and faculty training grants.

Campus-Level

The Graduate Division offers an array of financial support resources, such as fellowship competitions open to incoming and current UCI students, and funding workshops and writing tutors available through the Graduate Resource Center. For information about fellowship competitions available at UCI, see: <https://www.grad.uci.edu/funding/fellowships-awards/index.php>.

School-Level

Obtaining a graduate education can be expensive. The School of Social Sciences is committed to providing resources to help you offset the expenses you will incur as you work toward achieving your advanced degree. Information about financing your graduate education, instructions on how to apply for funding opportunities, and available funding opportunities can all be found online at: <http://www.gradstudies.socsci.uci.edu/funding/overview.php>

Travel Support for Conference Attendance/Presentations: The School of Social Sciences provides some financial support when you present your work at a conference. A maximum of \$400 per year (July 1 through June 30) per student, will be provided for travel to conferences when the student is presenting a paper. The exact amount is based on 80% of allowable expenses (i.e., conference registration, airfare and ground transportation, and lodging, but not meals or food purchases). Funding is not available for attendance only, when the student is chairing a session or discussing someone else's paper, or for presenting research results with no associated paper. A poster session or PowerPoint presentation with an associated paper qualifies for funding, but not without. Students will be eligible to receive a maximum of \$800 each during their total tenure in the Social Sciences graduate program.

Department-Level

Financial support is offered for the first five years, or fifteen quarters, of enrollment in the graduate program, contingent on satisfactory academic standing and progress. Satisfactory progress in the department is evaluated based on acceptable completion of course work, timely completion of program examination requirements, and acceptable progress in research as determined by your faculty advisor.

Your support each quarter will take the form of a teaching assistantship, a research assistantship, or a fellowship.

In addition, the department holds two fellowship award competitions to support research activity over the summer. These awards, named for emeriti faculty in the department, include the Jean-Claude Falmagne Research award, which is open to cognitive sciences graduate students who have advanced to candidacy for the Ph.D., and the John I. Yellott Scholar Award, which is open to cognitive science graduate students who have not yet advanced for the Ph.D. Each award is in the amount of \$3,000 to support research activities during the summer. Awardees must present their research findings by spring quarter of the following year as part of the department's colloquium series.

Some extramural funding opportunities (e.g., NIH NRSA Predoctoral Fellowships) require submission through UCI's Office of Research (OR) in order to be officially submitted to a granting agency. The funding agency's application guidelines will state whether institutional approval is required prior to submission. However, sometimes, it can be a bit unclear. If you're not sure, please contact the department administrative office for assistance.

If institutional approval is required, your application must be routed through the department's administrative office to the Office of Research (OR). You must give the department administrative staff a minimum of four weeks' notice prior to a funding deadline in order to ensure that all items are ready for Office of Research (OR) to review. Note that Office of Research (OR) requires a minimum of 5-10 working days (depending on the funding source) to review a proposal submission.

Lastly, the Department also provides some funding for conference attendance if you are presenting a poster or talk. Partial funding will be provided to cover expenses such as airfare, lodging, registration, and transportation,

but does not cover meals or incidentals. Please contact the department administrative office if and when you are seeking funding support for conference travel.

G. More Useful Information

People Resources

1. Your advisor: You're going to be spending a lot of time working with this person. You might want to take some time to talk to him/her.
2. Graduate Program Director: Associate Professor Joachim Vandekerckhove, SBSG 2324, (949) 824-5958, joachim@uci.edu. Beyond your advisor, the Graduate Director is probably the most valuable faculty member to graduate students. If any question comes up that your advisor cannot handle, contact Joachim.
3. Graduate Office: Graduate Affairs Director John Sommerhauser. The School of Social Sciences – of which the Department of Cognitive Sciences is a member department – houses a number of departments and research centers. The school's graduate office (<https://www.gradstudies.socsci.uci.edu>) manages many important administrative functions concerning graduate study in this department. Please contact the graduate office with your questions, and please respond to all emails sent by the graduate office (if applicable).

University-wide Policies: UC Irvine has a number of policies concerning graduate studies. These can be found in the UC Irvine 2017-18 General Catalogue <http://catalogue.uci.edu/welcome/> and on the Graduate Division's website at: <https://www.grad.uci.edu/academics/academic-policies.php>.

Computers: Most faculty advisors provide some computing resources in their labs for research use. A computer lab for Social Sciences Graduate Students is also available on the 6th floor of SST (Room 604).

OIT (<https://www.oit.uci.edu>) maintains the campus computer network. On their website, you will find a number of resources including software, email information, and policies. UCI has wireless internet access covering most of the campus called UCINet Mobile Access. To use this network, you must first register your computer's MAC address. Do this on the OIT website. Computers in the School of Social Sciences are maintained by Social Sciences Computing Services (<http://www.sscs.socsci.uci.edu/>) located in SSPB 1288.

Mailboxes: Each graduate student has a mailbox located in SSPA room 3151 – the room next to the copy machines. Graduate mailboxes – like the faculty and staff mailboxes – are listed by last name. Please speak with Craig Stone (cestone@uci.edu), 949-824-7179) if you cannot locate your mailbox.

Libraries: UCI has two main libraries, Langston Library and Ayala Science Library. Your UCI student ID card serves as your library card but must be activated by visiting one of these two libraries. You can access online journal subscriptions and databases through the library website. You must use a computer with a campus IP address to access these resources. When you are off campus, you can access subscription journals by using Virtual Private Network (VPN) software attainable via the OIT website.

Scantron Machines: Craig Stone, Instructional Support Center Manager, maintains the School of Social Sciences scantron machines, located next to SSPA 3167, which is often used for TA duties.

Teaching Assistantships: Teaching assistant assignments, in general, are coordinated by the school's Graduate Office with some pre-assignments made by the department. An e-mail announcement is sent out, and applications

are submitted online. TAs are assigned school-wide thus you may be assigned to a course outside of the department. When you apply, you will specify which courses you are interested in TAing.

Please note that faculty members can also request specific TAs, so if you are interested in a certain course, it is wise to contact the instructor ahead of time. Bear in mind that not all requests will be accommodated.

Payroll and Financial Issues: Stipend checks are issued on the first of the month and delivered to the Social Sciences Graduate Office (located on the 3th floor of SST) unless you have direct deposit. If a stipend check is requested for any time other than the first of the month, and you do not have direct deposit, the check must be picked up in Financial Services, 101 Aldrich Hall. If you have questions, you should contact Graduate Office Analyst, Pat Frazier, at (pcfrazie@uci.edu; 949-824-4224) for assistance.

On Campus Housing: If you are interested in living in on-campus, you can find information on the Graduate Housing website: <https://www.housing.uci.edu/grad/index.html>.

Graduate Liaison: Irina Danileiko (idanilei@uci.edu) is the department's main graduate liaison for the 2017-18AY. If you have any issues that you believe should be made known to the department office but feel uncertain about conveying them directly, please talk to her. Irina is also responsible for arranging graduate student lunches with visiting colloquium speakers and for organizing graduate student activities related to the Graduate Recruitment Visit held in Winter Quarter.

Office Locations: Each arriving graduate student is assigned a faculty member as their graduate advisor. Most department faculty offices are located in the Social & Behavioral Sciences Gateway (SBSG) building, but a few are housed in Social Science Plaza A (SSPA). Labs are located in SBSG, SSPA, or the Social Science Lab building (SSL).

Students who do not have office space within their graduate advisor's lab may be assigned office space in Social Science Tower (SST) for holding teaching assistant office hours only – not for other use. First year graduate students are assigned office space in the large 679 room. The assignments are made prior to the start of the quarter.

The Administrative Office Suite for the department is located on the 2nd floor of the Social & Behavioral Sciences Gateway Building. A few of your first year courses will take place in the Conference Room, SBSG 2200, just across the hall from this suite.

Keys: If you are requesting a key to your advisor's lab, your advisor must send an email to the department manager (Clara Schultheiss; clara@uci.edu) for verification purposes. Once confirmed, you will receive an email notification indicating that you can pick up your key as follows:

- For SBSG (Building and Labs): see Clara or the department staff in SBSG 2201
- For SSPA, SSL and SST (Building and Labs): see Mario Nunez, facilities assistant, in SSPA 1208.

H. Non-Discrimination Policy and Counseling/Clinical Services

The University of California, in accordance with applicable federal and state laws and university policy, prohibits discrimination against or harassment of any person at the University on the basis of race, color, national origin, religion, sex, gender identity, pregnancy, physical or mental disability, medical condition (cancer-related or genetic

characteristics), ancestry, marital status, sexual orientation, citizenship, age, or service in the uniformed services. The University also prohibits sexual harassment and sexual violence. These policies cover admission, employment, access, and treatment in University programs and activities. The University of California also prohibits employment discrimination based on genetic information (including family medical history), gender, and gender expression.

The UCI and UC Systemwide Guidelines and Policies that address these matters can be found on the UCI Office of Equal Opportunity and Diversity's website at: <http://oeod.uci.edu/policy.html>

The Counseling Center is the primary counseling and mental health agency for UCI undergraduate and graduate students. They strive to assist students with their academic success by developing dimensions of well-being. Counseling Center services are free of charge to currently enrolled students who have paid registration fees. If you feel that you might benefit from talking to someone, please follow instructions for making an initial appointment with the Counseling Center at: <http://www.counseling.uci.edu/services/appointments.html>

I. Reminders

Success in the graduate program depends on refining your knowledge of the English language including reading, writing, and speaking. Your specific research area often requires the high development of more specific skills like math, statistics, programming, software use, and experimental design. You must develop these skills while acquiring expert knowledge of your research domain.

Admission and registration information for 2017-18, including a link to TA appointment criteria, can be found at: <https://www.gradstudies.socsci.uci.edu/admissions/docs.php>

Among those most knowledgeable about the graduate program are other graduate students. Take some time to get to know your fellow graduate students.

J. Contact Information

Department of Cognitive Sciences Administration (SBSG 2201):

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*mathematical models of learning and memory,
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Alyssa A. Brewer, Associate Professor
*neuroimaging of visual perception, visual deficits,
and neurological disorders*

Charlie Chubb, Professor
*visual perception, mathematical modeling,
histogram contrast analysis*

Barbara Doshier, Distinguished Professor
*human information processing, memory retrieval,
attention, visual perception*

Greg Hickok, Professor
*neuroanatomy of language, neural plasticity,
neuroimaging, cognitive neuroscience*

Bruce Berg, Associate Professor
*audition, auditory attention, psychophysics of
complex sounds, computational models of hearing*

Nadia Chernyak, Assistant Professor
*cognitive development, social cognition, prosocial
behavior, moral cognition, agency and free will,
conceptual development*

Mike D'Zmura, Professor
*vision, hearing, language, brain-computer
interfaces*

Emily Grossman, Associate Professor
visual perception and neuroimaging

Don Hoffman, Professor
*machine and human vision, visual recognition,
artificial intelligence, virtual reality, consciousness
and cognition, shape from motion*

Jeff Krichmar, Professor
computational neuroscience, robotics

Mimi Liljeholm, Assistant Professor
neural and computational bases of cognition, perception and action

Louis Narens, Professor
measurement, logic, metacognition

Lisa Pearl, Associate Professor
linguistics, computational linguistics, language development, language change, Bayesian models

Virginia Richards, Professor
auditory perception and cognition, human psychophysics

Kouros Saberi, Professor
signal detection, psychophysics, cortical neuroscience, sensory genetics

George Sperling, Distinguished Professor
empirical and theoretical studies of human information processing: visual perception, attention, and short-term memory systems; computational and neural models of motion and depth perception, and of feature, spatial, and temporal attention processes

Mark Steyvers, Professor
higher-order cognition, cognitive neuroscience, computational modeling, collective intelligence

Ted Wright, Associate Professor
cognitive psychology, human motor control, Fitts task, aimed movements, handwriting immersive virtual reality, 1/f noise, quantitative models

Michael Lee, Professor
computational models and bayesian methods in decision making, representation, categorization, individual differences, and the wisdom of the crowd

Sara Mednick, Associate Professor
memory consolidation, sleep, pharmacology, aging, brain stimulation

Emre Neftci, Assistant Professor
computational neuroscience, neuromorphic engineering, machine learning

Zygmunt Pizlo, Professor and Falmagne Endowed Chair
human and machine vision, 3D shape, symmetry, virtual reality, robotics, problem solving

Jeffrey Rouder, Professor and Falmagne Endowed Chair
mathematical and statistical models of perception and cognition; Bayesian mixed models; psychometrics

Barbara Sarnecka, Associate Professor
cognitive development, language development, number concepts, conceptual change, individual cognitive development, the historical development of science & mathematics

Ramesh Srinivasan, Professor
perception, attention, decision making, cognitive and clinical neuroscience

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response time modeling, model fitting, computational statistics, psychometrics, Bayesian statistics

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