

The 2019 Summer Undergraduate Research Program of Center for Neural Science, New York University

Attendance by SURP Students Required, except where noted
Letters in bold indicate required writing assignments

Date	Occasion	Time and place	Leader and participants
<i>Week 1</i> May 28 Tuesday	Orientation and Welcome Reception hosted by the CNS	9am – 6 pm Rm 636, Meyer	All students, Dr. Chiye Aoki, SURP Director and Dr. Margarita Kaplow, SURP Co-director
	Breakfast and Introductions	9:00am –11:00am	Introduce Jessica Holman, Jenna Rice, and Paul Fan
	Orientation on the use of animals in research	11am-12pm	All SURP students and Dr. Lee Ronn-Paluch
	Buffet Lunch with mentors	12pm-1pm	All SURP students, SURP Mentors, CNS coordinators and CNS staff
	Wet Lab Boot Camp I DNA extraction for PCR	2pm-4pm Rm 612, Meyer	Wet Lab Boot Camp I DNA extraction for PCR
	Getting NYU IDs, walk around the neighborhood	4pm-5pm Public Safety Office	All SURP participants, with NYU students
	Visit Mentor's lab	5pm-6pm	All SURP participants
May 29 Wednesday	Wet Lab Boot Camp II Analyzing simple, innate behaviors, phototaxis and chemotaxis experiments	10am-12pm Rm 612, Silver	ALL SURP participants, Chiye Aoki, Margarita Kaplow, and Larry Le
	Wet Lab Boot Camp III: Immunocytochemical visualization of antigens and viewing of brain specimens by light microscopy, vibratome sectioning.	1pm-4pm Rm 612, Silver	

<p>May 30 Thursday</p>	<p>Orientation on lab safety</p> <p>Wet Lab Boot Camp IV Analyzing PCR products and genotyping</p>	<p>9am-1pm Meyer Room 636</p> <p>2pm-3pm Rm 612, Silver</p>	<p>ALL SURP participants –</p> <p>ALL SURP participants, Chiye Aoki, Margarita Kaplow, Larry Le</p> <p>Submit a tentative title of your summer research, due at the end of the day</p>
<p>May 31 Friday</p>	<p>Animal Facility Tour</p> <p>Matlab I</p>	<p>9am-10am Meet at Meyer Lobby</p> <p>1pm-3pm Meyer Room 635</p>	<p>SURP participants working with vertebrate animals</p> <p>Instructor: Gerick Lee</p>
<p><i>Week 2</i> June 6 Thursday</p>	<p>SURP Group meeting, lunch and weekly discussion</p> <p>“The impact of local interactions on somatosensory neural responses”</p>	<p>11am-12pm</p> <p>12pm-1pm</p>	<p>Group discussion among SURP students, facilitated by Chiye Aoki and Margarita Kaplow</p> <p>Dr. Simon Peron</p> <p>Submit a revised title and a bibliography</p>
<p>June 7 Friday</p>	<p>Matlab II</p>	<p>1pm-3pm Meyer Room 635</p>	<p>Instructor: Gerick Lee</p>
<p><i>Week 3</i> June 13 Thursday</p>	<p>SURP Group meeting, lunch and weekly discussion</p> <p>“Diving into the brain of adolescents using an electron microscope to capture individual differences in resilience to stress</p>	<p>11am-12pm</p> <p>12pm-1pm</p>	<p>Group discussion among SURP students, facilitated by Chiye Aoki and Margarita Kaplow</p> <p>Dr. Chiye Aoki</p> <p>Submit a rough draft of the Background section of the summer paper</p>

<p><i>Week 4</i> June 20 Thursday</p>	<p>SURP Group Meeting: lunch and weekly discussion</p> <p>"Rethinking Autism and Animal Models: A Systems Perspective"</p>	<p>11am-12pm Rm 635, Meyer</p> <p>12pm-1pm</p>	<p>Group discussion among SURP students, facilitated by Chiye Aoki and Margarita Kaplow</p> <p>Lecture by Dr. Andre Fenton</p> <p>Submit a rough draft of the 'Methods' section of the summer paper</p> <p>SURP mentors survey due</p>
<p><i>Week 5</i> June 25 Tuesday</p>	<p>SURP group outing Broadway Show: "Dear Evan Hansen"</p>	<p>7pm</p> <p>Music Box Theatre 239 West 45th Street</p>	<p>All SURP students and mentors welcome</p>
<p>June 27 Thursday</p>	<p>SURP Group meeting, lunch and weekly discussion</p> <p>"Dynamic risk preferences in rats"</p>	<p>11am-12pm Rm 635, Meyer</p> <p>12pm-1pm</p>	<p>Group discussion among SURP students, led by Dr. Aoki and Dr. Kaplow</p> <p>Lecture by Dr. Christine Constantinople</p> <p>Submit a 'pretty good' draft of the 'Intro' section, consisting of the rationale and background material.</p>
<p><i>Week 6</i> Fourth of July</p>	<p>SURP Group Meeting</p>	<p>East River viewing of the fireworks, Evening</p>	<p>Group outing, voluntary</p>
<p>July 2 Tuesday</p>	<p>SURP Group meeting, followed by luncheon and Lecture on: "How attention shapes perception"</p>	<p>11am-12pm Rm 635, Meyer</p> <p>12pm-1pm</p>	<p>Group Discussion led by Chiye Aoki</p> <p>Lecture by Dr. Marisa Carasco</p> <p>Submit a rough draft of the Results section (Imaginary graphs, tables, and drawings that shows the kind of data you <i>hope</i> to collect plus interpretation of expected results)</p>

<p><i>Week 7</i> July 11 Thursday</p>	<p>SURP Group meeting, lecture followed by lunch and discussion</p> <p>“Translational Control in Memory and Brain Disorders”</p>	<p>11am-12pm Rm 635, Meyer</p> <p>12pm-1pm</p>	<p>Group Discussion led by Chiye Aoki, and Margarita Kaplow</p> <p>Lecture by Dr. Eric Klann</p> <p>Submit a ‘pretty good’ draft of the ‘Methods’ section of the summer paper and any update on results</p>
<p><i>Week 8</i> July 16 Tuesday</p>	<p>Practice session for the Symposium</p>	<p>9am-5pm Rm 635, Meyer</p>	<p>ALL SURP students with Chiye Aoki, Margarita Kaplow and mentors coaching the talks</p> <p>Come with your Full PowerPoint Presentation</p>
<p>July 18 Thursday</p>	<p>SURP Group meeting, followed by luncheon and</p> <p>“”</p>	<p>11am – 11:45pm Rm 636, Meyer</p> <p>12pm-1pm</p>	<p>Group discussion among SURP students, led by Dr. Aoki and Dr. Kaplow</p> <p>Lecture by Dr. Dan Sanes</p> <p>Submit a rough draft of the Results and Discussion Section that considers the significance of data to be collected</p>
<p>July 19 Friday</p>	<p>Diversity Summer Student Research Conference</p>	<p>9am-6pm 9th Floor Kimmel Center</p>	<p>All SURP students</p>
<p><i>Week 9</i> July 25 Wednesday</p>	<p><i>Optional Practice for Symposium</i></p>	<p>9am-5pm Rm 635, Meyer</p> <p><i>Optional</i></p>	<p>ALL SURP students with Chiye Aoki, Margarita Kaplow and mentors coaching the talks</p> <p>Come with your Full PowerPoint Presentation</p>
<p>July 26 Friday</p>	<p>SURP Symposium!</p> <p>Lunch</p>	<p>9am-12pm Room 636, Meyer</p> <p>12pm-1pm</p>	<p>SURP students, open to the public and mentors</p> <p>(Invite your friends and family!)</p> <p>Celebration of SURP participants’ accomplishment, open to CNS community</p>

<i>Week 10</i> August 1st Thursday	SURP Group meeting, lecture followed by lunch and discussion Filling out Survey Monkey	12-12pm Rm 635, Meyer 12pm-1pm	Last day to submit a draft of the entire paper to mentor ALL SURP students
August 2nd Friday	SURP students and mentor luncheon DUE- Mentors Survey final evaluation	12-3pm	SURP students and mentors Last day to submit the final version of the summer research paper to mentor and Dr. Aoki
August 3rd Saturday	Check out from the dorm		

Suggested weekend outings: Movies, Fireworks on 4th of July, Museum tour, Statue of Liberty, Sailing, Boating/Zoo in Central Park