

SUMMER UNDERGRADUATE

RESEARCH PROGRAM

DEPARTMENT OF MOLECULAR BIOLOGY
LEWIS-SIGLER INSTITUTE FOR INTEGRATIVE GENOMICS

Summer 2017



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Calendar of Events

First Week

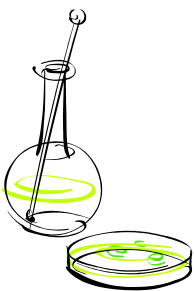
Date	Event	Time	Location
Monday June 12	Welcome Orientation 1 - Receive a brief overview of the program - Ask questions - Fill out important forms	10:00 – 11:00 a.m.	SCH 107 (1 st floor/lobby)
Tuesday June 13	Welcome Orientation 2 - Receive a brief overview of the program - Ask questions - Fill out important forms	10:00 – 11:00 a.m.	SCH 107 (1 st floor/lobby)
Tuesday June 13	Laboratory Safety Training (see page 9 for details)	1:30-4:30 p.m.	SCH 107
Wednesday June 14	First Research Discussion Group Meetings For groups 1, 2, and 3	12:00 – 1:00 p.m.	LTL/SCH rooms
Wednesday June 14	Intro to Biosafety Training	1:00-2:00 p.m.	SCH 107
Thursday June 15	First Research Discussion Group Meetings For groups 4, 5, and 6	12:00 – 1:00 p.m.	LTL rooms


Weekly and Special Events

Weekly Events

Date	Event	Time	Location
Tuesdays (Jun 20 – Aug 1; no July 4 th talk)	Faculty Research Talks (page 23) <i>The first talk is Tuesday, June 20.</i> Please RSVP online by noon the Friday before each talk. https://www.surveymonkey.com/r/SURP17talks	12:30 – 1:30 p.m.	SCH 107 (1 st floor/ lobby)
Wednesdays (Jun 21 – Aug 2)	Research Discussion Weekly Group Meetings For groups 1, 2, and 3	4:00 – 5:00 p.m.	LTL rooms
Thursdays (Jun 22 – Aug 3)	Research Discussion Weekly Group Meetings For groups 4, 5, and 6	4:00 – 5:00 p.m.	LTL rooms

Special Events

Date	Event	Time	Location
Wednesday June 21	 <p>Efficient Research Workshop with Dr. Geneva Stein</p> <p><i>As researchers, learning to use your time in lab efficiently is essential to successfully moving forward with a project. Outside of learning the science and techniques associated with your project, what can you do to become an efficient researcher? This workshop will touch on many resources, techniques and behaviors that you can employ to get the most out of your research experience whether you are here for the summer or working over the summer to start your senior research project.</i></p> <p>Please RSVP: https://www.surveymonkey.com/r/SURPResWrks hp</p>	12:00 – 1:00 p.m.	LTL 118

<p>Thursday June 29</p>	<p>Graduate Student Panel</p> <p><i>Current Princeton Graduate Students will offer insight and advice on undergraduate research and writing a personal statement as well as discuss the graduate school application/interview process and graduate student life.</i></p> <p>Please RSVP: https://www.surveymonkey.com/r/SURPgradPnl</p>	<p>5:30 – 6:30 p.m.</p>	<p>SCH 107</p>
<p>Wednesday July 5</p> 	<p>“How to Prepare a Poster” Workshop with Dr. Vanessa Gonzalez-Perez</p> <p><i>A workshop detailing the do’s and don’ts of effective research poster design.</i></p> <p>Please RSVP for the Poster Workshop at: https://www.surveymonkey.com/r/SURPposter</p>	<p>12:30 – 1:30 p.m.</p>	<p>SCH 107</p>
<p>Thursday July 6</p>	<p>“Pathway to PhD” Talk By Dr. Coleen Murphy</p> <p><i>Thinking about applying to graduate school? Dr. Murphy will discuss the post-graduation pathway of obtaining a PhD and field your questions. Lunch served.</i></p> <p>Please RSVP for the talk at: https://www.surveymonkey.com/r/PathwayToPhD2017</p>	<p>12:30 – 1:30 p.m.</p>	<p>SCH 107</p>

Wednesday
July 19



**Graduate School Information Session with
Professor Tom Silhavy**

Thinking about applying to graduate school? Dr. Silhavy will provide advice about the application process and also answer any questions you may have. Lunch served.

Please RSVP online by noon Monday, July 17.
<https://www.surveymonkey.com/r/gradschlRSVP>

12:00 – 1:00 p.m. SCH 107

Tuesday
July 25

Career Symposium

Former students return to discuss an assortment of interesting career paths. Dinner served.

Past Symposium Speakers Include:

- *MD/PhD student at Robert Wood Johnson/Princeton University.*
- *Research Assistant at the Science & Technology Policy Institute*
- *Scientific Associate at DE Shaw Research.*
- *Medical Copywriter at AgencyRx.*
- *Harvard Law Student studying biotech law*

Please RSVP:
<https://www.surveymonkey.com/r/SURPcareer>

6:30 – 7:30 p.m. SCH 107

Thursday
August 10

Poster Session (page 28)

2:30 – 5:00 p.m. Icahn Atrium

Poster Session/Closing Dinner

Please RSVP online by noon Monday, August 7.
<https://www.surveymonkey.com/r/2017SURPdnr>

5:00 – 6:30 p.m. Icahn Atrium

Poster Session Schedule

Date	Event	Time	Location
Tuesday August 1	Deadline to submit abstracts. Students email the final draft of their abstracts to Caressa Sanford at caressas@princeton.edu	No later than 4:00 p.m.	
Thursday August 3	Deadline to submit posters Students email their poster file to Melissa DiMeglio at md20@princeton.edu	No later than 4:00 p.m.	
Monday August 7	Deadline to RSVP for Closing Dinner at: https://www.surveymonkey.com/r/2017SURPdnr	No later than 12:00 p.m.	
Wednesday August 9	Students put up posters in the afternoon.	Starting at 3:00 p.m.	Carl Icahn Atrium
Thursday August 10	Poster Session (page 28)	2:30 – 5:00 p.m.	Carl Icahn Atrium
	Poster Session/Closing Dinner	5:00 – 6:30 p.m.	Carl Icahn Atrium
Friday August 11	Last day of program <i>*Students should take down their posters after poster session on Thursday evening. The boards will be removed early Friday morning.</i>		

MOL/QCB Summer Program Students

Name	Advisor	Institution
Kristen Albrecht	Enquist	Princeton University
Henry Ando	Shaevitz	Princeton University
Metodi Balev	Ploss	Princeton University
Wolfgang Beck	Zakian	Princeton University
Logan Blaine	Andolfatto	Princeton University
Fang (Amy) Cao	Kang	Zhejiang University
Sandra Carpenter	Devenport	Princeton University
Milena Chakraverti-Wuerthwein	Leifer	Princeton University
Jessica Chambers	Witten	Princeton University
Daniel Che	Buschman	Princeton University

Name	Advisor	Institution
Ariel Chen	Rabinowitz	Princeton University
Samuel Chiacchia	Notterman	Princeton University
Diana Chin	Donia	Princeton University
Leo Choi	Murphy	Princeton University
Mary Kate Davis	Wieschus	Princeton University
Kaitlin Demarest	Korenykh	Princeton University
Nazik Elmekki	Brynildsen	Princeton University
Zach Feig	Brody	Princeton University
Michael Fernandez	Ayroles	East Los Angeles College
Thomas Ferrante	Bassler	Princeton University
Paola Figueroa-Delgado	Gavis	University of Puerto Rico
Jack Finlay	Schwarzbauer	Princeton University
Zach Flamholz	Gavis	Princeton University
Courtnei Foster	Levine/ Troyanskaya	Howard University
Nicolas Freeman	Brody	Princeton University
Noah Han	Burdine	Princeton University
Kristian Harris	Gitai	Howard University
Rukia Henry	Enquist	Howard University
Michael Hill-Oliva	Jonikas	Princeton University
Benjamin Huang	Simons	Princeton University
Wentao (Victor) Huang	Kang	Zhejiang University
Vishank Jain-Sharma	Bialek	Princeton University
I'ran James	Andolfatto	Elizabeth City State University
Gaby Joseph	Shenk	Princeton University
Benjamin Juarez	Gitai	University of California, Merced
Katie Kavanaugh	Jonikas	Princeton University
David Kim	Ploss	Princeton University
Joshua Kim	Toettcher	Princeton University
Rachel Kim	Yang	Princeton University

Name	Advisor	Institution
Ben Laitner	Verma	Princeton University
Joshua Latham	Staggs	Princeton University
Sally Lee	Burdine	Princeton University
Miles Lee	Wang, Q.	Princeton University
Daniel Liu	Kang	Princeton University
Jennifer Liu	Rabinowitz	Rutgers University
Olivia Long	De Leon	Princeton University
Yuting Lu	Murphy	Zhejiang University
Yikai Luo	Murphy	Zhejiang University
Luisa Mercado	Murphy	Webster University
Jivahn Moradian	Pacala	Princeton University
Megan Ostrowski	Shaevitz	Princeton University
Clayton Otter	Cristea	Princeton University
Catherina Pan	Cristea	Princeton University
Nana Park	Kang	Princeton University
Emily Pauls	Burdine	Princeton University
Tony Phan	Muir	Princeton University
Dennis Perez-Lopez	Wuhr	University of Puerto Rico
Katherine Pizano	Witten	Princeton University
Aparna Raghu	Petry	Princeton University
Gabriel Ramirez-Arellano	Hughson	Southern Virginia University
Rachel Reed	Murphy	Princeton University
Anastasia Repouliou	Brangwynne	Princeton University
Jorge Reyes	Rabinowitz	Princeton University
Elizabeth Reznik	Notterman	Princeton University
India Rogers-Shepp	Murphy	Princeton University
Jenelys Ruiz	Murphy	University of Puerto Rico
Christopher Russo	Wingreen	Princeton University
Peyton Smith	Schedl	Princeton University

Name	Advisor	Institution
Bradley Spicher	Jonikas	Princeton University
Katherine Steifel	Kocher	Princeton University
Shiye Su	Staggs	Princeton University
Camille Sullivan	Bassler	Princeton University
Tingting Sun	Leifer	Princeton University
Caroline Taber	Shvartsman	Princeton University
Tanya Tafolla	Wingreen	University of California, Merced
Mark-Avery Tamakloe	Levine	Princeton University
Alice Tang	Singh	Princeton University
Kimberly Tang	Silhavy	Princeton University
Sarah Tian	Schwarzbauer	Princeton University
Ava Torjani	Notterman	Princeton University
Gabriel Vercelli	Gregor	Princeton University
Adam Wang	Rabinowitz	Princeton University
Aidan Waugh	Schedl	Princeton University
Maria Wissler	Silhavy	Princeton University
Stevie Yang	Gitai	Princeton University

Laboratory & Biosafety Training

Date: Tuesday, June 13

Location: SCH 107 (ground floor)

Time: 1:30- 4:30 PM.

Laboratory Safety Training – 1:30-4:30 p.m.

Conducted by Kyle Angjelo - Program Manager, Chemical Safety, Environmental Health and Safety - kangjelo@princeton.edu

Date: Wednesday, June 14

Location: SCH 107 (ground floor)

Time: 1-2 PM.

Biosafety in the Laboratory Training - 1:00-2:00 p.m.



Conducted by Jacqueline Wagner - Assistant Director, Environmental Health & Safety - jw6@princeton.edu

EHS Website: <https://ehs.princeton.edu/>

The following students must attend as indicated in the chart.

Please let us know if you are working on a computational project only and will not be doing any wet lab work over the summer.

Lab safety training for ISC 231-232 courses does not satisfy the full laboratory safety training requirement and cannot be substituted.

Name	Advisor	Institution	Status (need vs. completed)
Kristen Albrecht	Enquist	Princeton University	Both Lab Safety and Biosafety
Henry Ando	Shaevitz	Princeton University	Biosafety
Metodi Balev	Ploss	Princeton University	Completed
Wolfgang Beck	Zakian	Princeton University	Biosafety
Logan Blaine	Andolfatto	Princeton University	Biosafety
Fang (Amy) Cao	Kang	Zhejiang University	Both Lab Safety and Biosafety
Sandra Carpenter	Devenport	Princeton University	Biosafety
Milena Chakraverti-Wuerthwein	Leifer	Princeton University	Biosafety
Jessica Chambers	Witten	Princeton University	Both Lab Safety and Biosafety
Daniel Che	Buschman	Princeton University	Biosafety
Ariel Chen	Rabinowitz	Princeton University	Biosafety
Samuel Chiacchia	Notterman	Princeton University	Completed
Diana Chin	Donia	Princeton University	Biosafety
Leo Choi	Murphy	Princeton University	Both Biosafety and Lab Safety
Mary Kate Davis	Wieschaus	Princeton University	Both Biosafety and Lab Safety
Kaitlin Demarest	Korenykh	Princeton University	Both Biosafety and Lab Safety
Nazik Elmekki	Brynildsen	Princeton University	Completed

Name	Advisor	Institution	Status (need vs. completed)
Zach Feig	Brody	Princeton University	Both Biosafety and Lab Safety
Michael Fernandez	Ayroles	East Los Angeles College	Biosafety
Thomas Ferrante	Bassler	Princeton University	Completed
Paola Figueroa-Delgado	Gavis	University of Puerto Rico	Both Biosafety and Lab Safety
Jack Finlay	Schwarzbauer	Princeton University	Both Biosafety and Lab Safety
Zach Flamholz	Gavis	Princeton University	Both Biosafety and Lab Safety
Courtnei Foster	Levine/ Troyanskaya	Howard University	Both Biosafety and Lab Safety
Nicolas Freeman	Brody	Princeton University	Biosafety
Noah Han	Burdine	Princeton University	Completed
Kristian Harris	Gitai	Howard University	Both Biosafety and Lab Safety
Rukia Henry	Enquist	Howard University	Both Biosafety and Lab Safety
Benjamin Huang	Simons	Princeton University	Lab Safety
Wentao (Victor) Huang	Kang	Zhejiang University	Both Biosafety and Lab Safety
Vishank Jain-Sharma	Bialek	Princeton University	Completed
I'ran James	Andolfatto	Elizabeth City State University	Both Biosafety and Lab Safety
Gabriel Joseph	Cristea	Princeton University	Both Biosafety and Lab Safety
Benjamin Juarez	Gitai	University of California, Merced	Both Biosafety and Lab Safety
Katie Kavanaugh	Jonikas	Princeton University	Both Biosafety and Lab Safety
David Kim	Ploss	Princeton University	Completed
Joshua Kim	Toettcher	Princeton University	Both Biosafety and Lab Safety
Rachel Kim	Yang	Princeton University	Completed
Robert Benjamin (Ben) Laitner	Verma	Princeton University	Completed
Joshua Latham	Staggs	Princeton University	Completed

Name	Advisor	Institution	Status (need vs. completed)
Ju Young(Sally) Lee	Burdine	Princeton University	Lab Safety
Miles Lee	Wang	Princeton University	Completed
Daniel Liu	Kang	Princeton University	Completed
Jennifer Liu	Rabinowitz	Rutgers University	Both Biosafety and Lab Safety
Yuting Lu	Murphy	Zhejiang University	Both Biosafety and Lab Safety
Yikai Luo	Murphy	Zhejiang University	Both Biosafety and Lab Safety
Luisa Mercado	Murphy	Webster University	Both Biosafety and Lab Safety
Jivahn Moradian	Pacala	Princeton University	Completed
Megan Ostrowski	Shaevitz	Princeton University	Biosafety
Clayton Otter	Cristea	Princeton University	Completed
Catherina Pan	Cristea	Princeton University	Both Biosafety and Lab Safety
Na Hyun Park	Kang	Princeton University	Both Biosafety and Lab Safety
Emily Pauls	Burdine	Princeton University	Completed
Tony Phan	Muir	Princeton University	Both Biosafety and Lab Safety
Dennis Perez-Lopez	Wuhr	University of Puerto Rico	Both Biosafety and Lab Safety
Katherine Pizano	Witten	Princeton University	Biosafety
Aparna Raghu	Petry	Princeton University	Biosafety
Gabriel Ramirez-Arellano	Hughson	Southern Virginia University	Both Biosafety and Lab Safety
Rachel Reed	Murphy	Princeton University	Both Biosafety and Lab Safety
Anastasia Repouliou	Brangwynne	Princeton University	Both Biosafety and Lab Safety
Jorge Reyes	Rabinowitz	Princeton University	Both Biosafety and Lab Safety
Elizabeth Reznik	Notterman	Princeton University	Completed

Name	Advisor	Institution	Status (need vs. completed)
India Rogers-Shepp	Murphy	Princeton University	Both Biosafety and Lab Safety
Jenelys Ruiz	Murphy	University of Puerto Rico	Both Biosafety and Lab Safety
Christopher Russo	Wingreen	Princeton University	Completed
Peyton Smith	Schedl	Princeton University	Lab Safety
Bradley Spicher	Jonikas	Princeton University	Completed
Katherine Steifel	Kocher	Princeton University	Biosafety
Shiye Su	Staggs	Princeton University	Completed
Camille Sullivan	Bassler	Princeton University	Completed
Tingting Sun	Leifer	Princeton University	Biosafety
Caroline Taber	Shvartsman	Princeton University	Lab Safety
Tanya Tafolla	Wingreen	University of California, Merced	Both Biosafety and Lab Safety
Mark-Avery Tamakloe	Levine	Princeton University	Both Biosafety and Lab Safety
Alice Tang	Singh	Princeton University	Completed
Kimberly Tang	Silhavy	Princeton University	Both Biosafety and Lab Safety
Sarah Tian	Schwarzbauer	Princeton University	Biosafety
Ava Torjani	Notterman	Princeton University	Both Biosafety and Lab Safety
Gabriel Vercelli	Gregor	Princeton University	Biosafety
Adam Wang	Rabinowitz	Princeton University	Both Biosafety and Lab Safety
Aidan Waugh	Schedl	Princeton University	Lab Safety
Maria Wissler	Silhavy	Princeton University	Both Biosafety and Lab Safety
Stevie Yang	Gitai	Princeton University	Both Biosafety and Lab Safety

Radiation Safety Training



Students in rad labs who will **not** be using radioactive materials will need to complete the online *Radiation Safety Awareness Training for Non-Radioisotope Users*. Log into www.princeton.edu/training, and follow Training by Department > Environmental Health & Safety > Radiation Safety > *Radiation Safety Awareness Training for Non-Radioisotope Users*. After you submit the form, you and your lab manager will receive an email confirming that you completed the training from Ms. Sue Dupré, Assistant Director for Radiation Safety, Environmental Health and Safety. dupre@princeton.edu.

The students listed below must complete the online *Radiation Safety Awareness Training for Non-Radioisotope Users* before starting in the lab:

Full Name	Advisor	Institution
Ariel Chen	Rabinowitz	Princeton University
Kaitlin Demarest	Korenykh	Princeton University
Paola Figueroa-Delgado	Gavis	University of Puerto Rico
Jennifer Liu	Rabinowitz	Rutgers University
Jorge Reyes	Rabinowitz	Princeton University
Peyton Smith	Schedl	Princeton University
Camille Sullivan	Bassler	Princeton University
Kimberly Tang	Silhavy	Princeton University
Aidan Waugh	Schedl	Princeton University
Maria Wissler	Silhavy	Princeton University

- **Please note:** Any student who discovers that they will be working on a project that involves radioactive material or x-ray equipment **must** contact Ms. Sue Dupré at dupre@princeton.edu to receive additional radiation safety training.

Additional Safety Training

Please check with your lab mentor or lab manager to confirm if any additional training sessions are required.

Animal User Training

If you have any questions, please contact Susie Chow - Associate Director, Research Resources at siuchow@princeton.edu.

Only principal investigators, staff employees, doctoral students, post-doctoral fellows, and undergraduates who are listed on an animal experimentation protocol, which has been approved by the IACUC, may apply for and receive access to animal facilities. Personnel not listed on the protocol are ineligible to apply for facility access. Undergraduate students must be guided and supervised by trained post-doctoral students and fellows, staff, or graduate students.

All animal users must complete the following steps in order to receive access to animal facilities:

(Please note: Steps 3 and 4 should be started at the same time.)

1. Complete the required AALAS Learning Library (ALL) training.

- a) The information on the required course and how to register with the ALL can be found at:
<http://www.princeton.edu/ria/animal-research-protectio/training/>
- b) Follow the instructions under “[Enroll in AALAS Learning Library](#)”.
- c) Complete the "Princeton University -- All Personnel" track which contains "Working with the IACUC: Working with the IACUC: non-VA version".
- d) Also complete the animal-specific tracks pertaining to the species and type of work you will be doing. See the training list and details under the [AALAS Learning Library Training Requirements](#) section.
- e) Print out the transcript of the exams results. You will need to bring these to the facility tour and orientation later on.

2. Complete Animal Worker Health and Safety training and enroll in medical surveillance for the species you will handle and the facilities you may enter.

- a) Training is accessible on the EHS website:
<http://web.princeton.edu/sites/ehs/biosafety/biosafetypage/animal.htm>
You need your net ID and password to log in to the training.
- b) At the completion of training, you will be directed to the Initial Health History Form:
<http://ehsapps.princeton.edu/BioSafety%20Forms/healthhistory.php>
Answer the questions on the form and click on the “Submit” button, which sends the completed form to Employee Health Services.
- c) Contact [University Health Services/Employee Health Services](#) at 609-258-5035 for an appointment.
- d) For the location of Employee Health Services, see:
<https://uhs.princeton.edu/using-our-services/location-accessibility>

3. Complete the orientation and facility tour process with Susie Chow, LVT, LATG, Associate Director, Laboratory Animal Resources. The animal facility tour and orientation is the most important step in the process of obtaining access to your animal research room(s).

- a) Contact Susie Chow at siuchow@princeton.edu to schedule an orientation/tour.
- b) Bring the following documentation to orientation:
Verification of test completion of the species specific AALAS Learning Library.
Your PUID number (960*****)

4. Submit an Administrative Amendment Form (attached to email) to iacuc@princeton.edu

- a) Please have your lab PI, manager, or lab mentor assist you with this form. Please use the verbiage below to save a little time on the review process. Generally speaking, most students do not have any previous experience with research animals or the procedures on the animal protocols. A great way to answer the question on experience is to state something like:

"{insert name} has no previous experience working with {insert species}. He/She will be trained by {insert name of trainer} to perform {insert basic names of procedures}."

The trainer should already be on the animal protocol.

Laser Safety Training

Students who require this training will be notified by email or by their lab manager or mentor. The Laser Safety Program covers work with Class 2, Class 3, and Class 4 lasers. Individuals working with such lasers must attend training which includes: fundamentals or laser operation, biological effects of laser radiation on the eye and skin, non-radiation hazards (e.g. fire hazards, chemical exposure), classification of lasers and laser systems, and control measures and personal protective equipment. Individuals who work with or in close proximity to Class 3b or Class 4 lasers receive additional Laser Safety Training for High-Powered Lasers from EHS.

<https://ehs.princeton.edu/laboratory-research/laboratory-safety/laser-safety/laser-safety-training>

General sessions are posted on the campus training management site –

<http://www.princeton.edu/training>

Email [Steve Elwood](mailto:Steve.Elwood) or call (609-258-6271) to schedule additional sessions.

Bloodborne Pathogen Training

Students who require this training will be notified by email or by their lab manager or mentor.

Any person who handles blood or certain other body fluids as part of their job, or whose job responsibilities include activities that might expose them to such body fluids is required to understand the potential hazards of such exposure and receive Bloodborne Pathogens training.

This training is provided on-line via a web-based interactive program and must be completed before initial exposure on the job.

Instructions:

Go to the Employee Learning Center site: <http://www.princeton.edu/training>

You will need to log in using your Princeton NetID and password.

Click on Training by Department > Environmental Health & Safety.

On the Environmental Health & Safety tab (1st tab), click on Biological Safety.

Scroll down to "Bloodborne Pathogens Training for Research Staff" and click the "Click here to start this course" link to access and complete the training.

Contact Jacqueline Wagner, Assistant Director, Environmental Health and Safety, at jw6@princeton.edu or at 258-1427 with any questions and for more information.

Research Discussion Groups

Wednesday or Thursday Afternoons

- 12:00-1:00 p.m. on June 14 and June 15 only. Lunch provided.
- 4:00-5:00 p.m. from June 21 – Aug 03.

Please note: The first research group meetings will be held at 12:00 p.m. during orientation week. Subsequent research group meetings will be held weekly at 4:00 p.m.

- Each discussion group is led by a postdoctoral instructor.
- The purpose of the research discussion groups is to offer a forum for students to present their projects and findings.
- A major goal is for the students to gain experience with scientific oral presentations.
- Useful information for preparing and delivering presentations may be found online at:
 - Do's and Don'ts of Poster Presentation by Steven M. Block
 - <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1233841/pdf/biophysj00042-0617.pdf>
 - Dazzle 'em with Style: The Art of Oral Scientific Presentation by Robert R H Anholt
 - <http://www.physics.ohio-state.edu/~wilkins/writing/Supp/dazzle.html>
 - Scientifically Speaking: Tips for Preparing and Delivering Scientific Talks and Using Visual Aids by Judith P. Rhodes
 - http://tos.org/pdfs/sci_speaking.pdf
- Please see schedule below and pages 19-22 for your group assignments.

Research Discussion Groups Postdoctoral Instructors

Research Group	Instructor Name	First Research Group Meeting 12:00-1:00 p.m.	Weekly Research Group Meetings 4:00-5:00 p.m.
Group 1 Wednesday	Alejandro Ochoa, PhD (Storey lab)	LTL 005	LTL 005
Group 2 Wednesday	Nicole Aiello, PhD (Kang lab)	LTL 118	LTL 118
Group 3 Wednesday	Qiang Ding, PhD (Ploss lab)	SCH 218	LTL 222
Group 4 Thursday	Matthew Niepielko, PhD (Gavis lab)	LTL 118	LTL 118
Group 5 Thursday	Jon Paczkowski, PhD (Bassler lab)	LTL 117	LTL 117
Group 6 Thursday	Julie Merkle, PhD (Schüpbach lab)	LTL 222	LTL 222

Research Discussion Group Schedules



Group 1 - Wednesday

Discussion Leader: Dr. Alejandro Ochoa

- June 14: 12:00-1:00pm in **LTL 005**
- June 21-Aug 02: 4:00-5:00pm in **LTL 005**

Name	Advisor	Institution
Kristen Albrecht	Enquist	Princeton University
Logan Blaine	Andolfatto	Princeton University
Samuel Chiacchia	Notterman	Princeton University
Kaitlin Demarest	Korennykh	Princeton University
John Finlay	Schwarzbauer	Princeton University
Noah Han	Burdine	Princeton University
David Kim	Ploss	Princeton University
Clayton Otter	Cristea	Princeton University
Emily Pauls	Burdine	Princeton University
Aparna Raghu	Petry	Princeton University
Elizabeth Reznik	Notterman	Princeton University
Camille Sullivan	Bassler	Princeton University
Sarah Tian	Schwarzbauer	Princeton University
Aidan Waugh	Schedl	Princeton University

Group 2 - Wednesday

Discussion Leader: Dr. Nicole Aiello

- June 14: 12:00-1:00pm in **LTL 118**
- June 21-Aug 2: 4:00-5:00pm in **LTL 118**

Name	Advisor	Institution
Metodi Balev	Ploss	Princeton University
Sandra Carpenter	Devenport	Princeton University
Diana Chin	Donia	Princeton University
Nazik Elmekki	Brynildsen	Princeton University
Zach Flamholz	Gavis	Princeton University
Gabriel Joseph	Shenk	Princeton University
Joshua Kim	Toettcher	Princeton University
Catherina Pan	Cristea	Princeton University
Tony Phan	Muir	Princeton University
Rachel Reed	Murphy	Princeton University
India Rogers-Shepp	Murphy	Princeton University
Mark-Avery Tamakloe	Levine	Princeton University
Ava Torjani	Notterman	Princeton University
Maria Wissler	Silhavy	Princeton University

Group 3 - Wednesday

Discussion Leader: Dr. Qiang Ding

- June 14: 12:00-1:00pm in **SCH 218**
- June 21-Aug 02: 4:00-5:00pm in **LTL 222**

Name	Advisor	Institution
Wolfgang Beck	Zakian	Princeton University
Jessica Chambers	Witten	Princeton University
Mary Kate Davis	Wieschaus	Princeton University
Zach Feig	Brody	Princeton University
Nicolas Freeman	Brody	Princeton University
Katie Kavanaugh	Jonikas	Princeton University
Daniel Liu	Kang	Princeton University
Nana Park	Kang	Princeton University
Katherine Pizano	Witten	Princeton University
Anastasia Repouliou	Brangwynne	Princeton University
Peyton Smith	Schedl	Princeton University
Kimberly Tang	Silhavy	Princeton University
Adam Wang	Rabinowitz	Princeton University
Stevie Yang	Gitai	Princeton University

Group 4 - Thursday

Discussion Leader: Dr. Matthew Niepielko

- June 15: 12:00-1:00pm in **LTL 118**
- June 22-Aug 3: 4:00-5:00pm in **LTL 118**

Name	Advisor	Institution
Henry Ando	Shaevitz	Princeton University
Ariel Chen	Rabinowitz	Princeton University
Rachel Kim	Yang	Princeton University
Miles Lee	Wang	Princeton University
Jivahn Moradian	Pacala	Princeton University
Christopher Russo	Wingreen	Princeton University
Tingting Sun	Leifer	Princeton University
Jenelys Ruiz	Murphy	University of Puerto Rico
Gabriel Ramirez-Arellano	Hughson	Southern Virginia University
Benjamin Juarez	Gitai	University of California, Merced
Rukia Henry	Enquist	Howard University
Fang (Amy) Cao	Kang	Zhejiang University
Yikai Luo	Murphy	Zhejiang University
Bradley Spicher	Jonikas	Princeton University

Group 5 - Thursday

Discussion Leader: Dr. Jon Paczkowski

- June 15: 12:00-1:00pm in LTL 117
- June 22-Aug 3: 4:00-5:00pm in LTL 117

Name	Advisor	Institution
Milena Chakraverti-Wuerthwein	Leifer	Princeton University
Benjamin Huang	Simons	Princeton University
Ben Laitner	Verma	Princeton University
Megan Ostrowski	Shaevitz	Princeton University
Katherine Stiefel	Kocher	Princeton University
Alice Tang	Singh	Princeton University
I'ran James	Andolfatto	Elizabeth City State University
Michael Fernandez	Ayroles	East Los Angeles College
Luisa Mercado	Murphy	Webster University
Courtnei Foster	Levine/Troyanskaya	Howard University
Wentao (Victor) Huang	Kang	Zhejiang University
Leo Choi	Murphy	Princeton University
Thomas Ferrante	Bassler	Princeton University
Vishank Jain-Sharma	Bialek	Princeton University

Group 6 - Thursday

Discussion Leader: Dr. Julie Merkle

- June 15: 12:00-1:00pm in LTL 222
- June 22-Aug 3: 4:00-5:00pm in LTL 222

Name	Advisor	Institution
Daniel Che	Buschman	Princeton University
Joshua Latham	Staggs	Princeton University
Olivia Long	De Leon	Princeton University
Jorge Reyes	Rabinowitz	Princeton University
Shiye Su	Staggs	Princeton University
Gabriel Vercelli	Gregor	Princeton University
Dennis Perez-Lopez	Wuhr	University of Puerto Rico
Tanya Tafolla	Wingreen	University of California, Merced
Kristian Harris	Gitai	Howard University
Paola Figueroa-Delgado	Gavis	University of Puerto Rico
Jennifer Liu	Rabinowitz	Rutgers University
Yuting Lu	Murphy	Zhejiang University
Sally Lee	Burdine	Princeton University
Michael Hill-Oliva	Jonikas	Princeton University
Caroline Taber	Shvartsman	Princeton University

Faculty Research Talks



TUESDAYS

June 20-Aug 1st 12:30-1:30 p.m.

Schultz 107

Please sign-up online for each faculty talk by noon the Friday before the talk at:

<https://www.surveymonkey.com/r/SURP17talks>

Date	Professor	Research/Talk Title
June 20	Lynn Engquist	Imaging Exit Of Single Herpesvirus Particles From Living Cells
June 27	Michael Hecht	Toward Artificial Genomes and Proteomes: Sustaining Life With Genes & Proteins Designed From Scratch
July 4	No Talk (Observance of Independence Day)	
July 11	Bonnie Bassler	Tiny Conspiracies: Cell-to-Cell Communication in Bacteria
July 20	Mike Levine	Transcriptional enhancers in animal development and evolution
Aug 1	Andrew Leifer	Measuring brain activity and behavior in a simple worm

Faculty talk attendees will be served lunch.

Please be considerate to the faculty speaker and to your fellow students; please do not disrupt the seminar by leaving before the talk has ended (unless necessary*).

*Please let the speaker know beforehand if you must leave early for a lab task or meeting.

Keys & Building Access

➤ Princeton students

Your Princeton ID card will give you access to Lewis Thomas (LTL), Schultz (SCH), Moffett (MOF), Guyot (GUY), and Icahn (CIL) exterior and tunnel doors during off-hours. Your card should also have lab access if your lab has a card entry.

➤ Visiting students

Your prox card/fob issued by Conference Services will give you access to Lewis Thomas (LTL), Schultz (SCH), Moffett (MOF), Guyot (GUY), and Icahn (CIL) exterior and tunnel doors during off-hours.

➤ All students

- **For keys and/or prox issues for labs located in Lewis Thomas (LTL), Schultz (SCH), Moffett (MOF) or Guyot (GUY) buildings:**

Please contact Michael Fredericks at mfrederi@princeton.edu. You will need to pick up your key from his office in [Guyot Hall](#), room B-2 (lower/basement level).

- **For keys and/or prox issues for labs located Icahn (CIL) building:**

Please email Deb Grant at dg4@princeton.edu. You will need to pick up your key from her office in [Icahn Lab](#), room 071 (lower/basement level).

Parking

- Parking permits will be issued to any student wishing to park on campus.

➤ Princeton students

Please report to Parking and Transportation Office to apply for a permit (New South Building, A Floor) <http://www.princeton.edu/parking/>

➤ Visiting students

Please register your car with Conference Services to learn where to park.

http://www.princeton.edu/parking/Parking_Lots.pdf

- Public Safety will issue warnings on Monday June 12th. After that you will be ticketed.

Network Info

➤ Visiting Students

A temporary Princeton University ID number, netID and email address has been created for you. To set up your account, please consult the email from OIT you received in April. Once the steps are completed, you will have access to your Princeton email account and the University network. OIT Account Activation info: <http://helpdesk.princeton.edu/kb/display.plx?ID=9973>

You can access your Princeton email account using **Exchange Webmail (OWA)**:
<http://www.princeton.edu/main/tools/webmail/>

You can use "eduroam" for secured wireless access on campus. You can also temporarily connect to "puvisitor" and "test-puvisitor" for wireless access on campus. Your eduroam login is your Princeton netID + @princeton.edu (netID@princeton.edu). Eduroam instructions:
<http://helpdesk.princeton.edu/kb/display.plx?ID=8020>

➤ **Princeton Students**

If you left campus during the break, you may not have network access. Dorm Internet access over the summer can be obtained at www.princeton.edu/dormnet

Monitoring Of Illegal Downloads

Princeton University Policies and Regulations:

"Members of the University community who engage in any activity that infringes copyright-protected materials may be subject to disciplinary action. Under circumstances involving repeated instances of infringement through the use of the University's computing network, such disciplinary action may include the termination or suspension of network privileges."

Civil or criminal action also may result from infringing activity.

Information about appropriate uses of University technology may be found in the University's core IT policy document (<http://www.princeton.edu/itpolicy/>). Additional information about copyright and technology at the University may be seen in "Guard against illegal use of copyrighted materials" (<http://kb.princeton.edu/9407>) and the "Copyright Basics" page published by Office of General Counsel (<http://web.princeton.edu/sites/ogc/copyrightbasics.htm>). More information regarding copyright generally may be viewed at the United States Copyright Office web site (www.copyright.gov).

Fear of litigation should not be our reason for respecting the intellectual property rights of others. However, given the reality of increasingly aggressive legal action on the part of the entertainment industry, we encourage all members of the University community to be particularly mindful of our copyright policy and to consult the above-cited resources for further guidance as circumstances require.

Thank you for observing University policy and, in advance, for your cooperation in helping to raise awareness among others who may need the reminder

Poster Session

Share your summer research with members of the Princeton University scientific community!

Thursday, August 10

2:30-5:00 p.m.

Carl Icahn Atrium

Dinner served afterwards: Please RSVP by Aug 7 at:

<https://www.surveymonkey.com/r/2017SURPdnr>

Abstracts:

All stipend-paid students must submit an abstract of their summer research. The abstract should fit on one page and be 250 words. Make sure that your abstract has a title, followed by all authors, and then the text. Please underline your name.



To submit an abstract, please email final draft of abstract to Caressa at caressas@princeton.edu by 4:00pm, Tuesday, August 1 so it can be included in the abstract book.

Poster Printing:

To print your poster out as an entire sheet, please email the file to Melissa at md20@princeton.edu by 4:00pm, Thursday, August 3.

MICROSOFT ADOBE PDF/POWERPOINT:

The preferred application to create posters is Adobe Acrobat PDF format. Alternately, Microsoft PowerPoint for the PC files submitted in will also be accepted (Mac users should confirm that the file opens correctly in PowerPoint PC).

PAGE SETUP:

The PowerPoint file should be a single slide with the file page setup size set to 44" wide by 36" high in landscape mode. Allow for a ½ inch margin.

COLOR and FILE SIZE:

Individual figures and illustrations and text should use high contrast colors, as the poster printer output may differ from the output of a computer monitor. A white background is recommended. Fancy and solid backgrounds often cause problems during the printing process, are more costly and often times will not print at all. Avoid unusual fonts and keep file size to less than 18 MB (megabytes) or it won't print.

PROOFREAD:

Print a small draft on your local printer. Carefully proofread and review your poster file to-be-printed before submitting it. We will be unable to re-print any posters.

Summer Program Contacts

Students with questions

regarding research

Please contact Program Directors:

Vanessa González-Pérez, PhD

9A Guyot Hall

vanessagp@princeton.edu

609-258-9623

Or

Coleen T. Murphy, PhD

ctmurphy@exchange.princeton.edu

609-258-9396



Students with

administrative questions

Please contact:

Caressa Sanford

Program Coordinator

009 Guyot Hall

caressas@princeton.edu

609-258-9794