Dr. Shimoda was born in Livermore, California but she quickly moved to Seattle, Washington where she spent part of her life. While she initially wanted to become a doctor, as she progressed, she developed an enthusiasm for puzzle solving leading to engineering. She attended Marquette University in Wisconsin and graduated with a Bachelor’s degree. She stayed there and pursued an MS and PhD in Biomedical Engineering. Her initial studies as a graduate student were in pediatrics looking at cerebral vascular autoregulation in piglets and she ended up working alongside people in the field of lung biology. While she loved working with the mechanics behind the pressure and flow in the blood vessels, this work sparked an interest in the physiology of the pulmonary circulation. This passion guided her transition toward a fellowship in pulmonary physiology at the pulmonary and critical care medicine department of Johns Hopkins University. She remained grateful for her engineering training as it proves extremely helpful when you are running intricate sets of experiments with technologically advanced equipment.

Her main research interest focuses on vascular physiology and pathobiology of the lung. Her work examines non-canonical roles for ion channels and transporters in mediating the pathogenesis of pulmonary hypertension and she is

Continued on next page
also studying regulation of endothelial barrier function/calcium signaling pathways. In total, Dr. Shimoda has published more than 109 manuscripts and has been cited more than 9,400 times. When asked about some of her favorite work (she considered this question as a tough one!), she mentioned the study of aquaporin-1 as it sparked a wonderful journey to understand the role of this protein in pulmonary arterial smooth muscle cells. A project she is still working on at the moment. Overall, Dr. Shimoda’s has made her mark in the field of lung biology through her many contributions and her dedicated work.

Dr. Shimoda has been continuously funded by the National Institutes of Health (NIH). She was recently awarded the Robert F. Grover Prize from the American Thoracic Society (ATS). This price is given annually for outstanding contributions to the study of the effects of hypoxia and high altitude on the pulmonary circulation. One of many honors and awards she received during her career. Dr. Shimoda has been an active member of the American Physiological Society (APS) for many years where she occupied multiple positions such as Committee on Committees representative and Secretary Treasurer of the Respiration Section. She eventually served as the Chair of the Respiration Section and later, APS Councilor. She also helped the society through her service as an editor and reviewer for multiple APS journals (i.e., American Journal of Physiology, Lung Cellular and Molecular Physiology).

When asked, Dr. Shimoda said she was grateful for many amazing people she met during her career with a special mention for Jimmie T. Sylvester and Gregg L. Semenza, as they both have been important mentors and sponsors in past years showing constant support and kindness. We also had the chance to discuss how Marilyn Merker was a great friend and helped her getting involved in the Respiration Section. Dr. Shimoda is now looking to help other people achieve success as mentoring trainees is according to her one of the most rewarding part of her career. When asked what she would tell aspiring scientists looking to follow her steps, she said to 1) believe in yourself, 2) don’t let others tell you that you can’t do something, and 3) find good mentors who will support you. Dr. Shimoda is a model to many women in research and we have no doubts she will keep inspiring others over the years.

Once again, please let us congratulate Dr. Shimoda for this prestigious honor.
- The Newsletter Committee
Notes from the Chair

Dear colleagues,

After so much time apart, it’s hard to believe that Experimental Biology is right around the corner. I am enthusiastic about the incredible program and social events our section has put together and I encourage you to identify old favorites including the Steering Committee meeting, Marilyn Merker Trainee Highlights Breakfast, and the Respiration Section Banquet at the Seaport Museum in the program. I am looking forward to reconnecting with you all again. I also encourage you to review the health and safety requirements for the meeting, including requirements for mask-wearing and proof of vaccination for meeting and restaurant dining at https://www.experimentalbiology.org/healthandsafety. Acceptable vaccines for both national and international websites are provided at the website.

I also encourage you to start thinking about Physiology Summitt 2023, our new annual meeting to be held in Long Beach, CA. Dr. J. Usha Raj and I are proud to represent the section in suggesting foundational programming and I hope you’ll reach out to meetings@physiology.org if you have other ideas, speak suggestions, or session ideas to make the meeting great.

With Kindness,

Melissa L. Bates, PhD, FAPS
Associate Professor of Health and Human Physiology,
Internal Medicine, and Pediatrics
University of Iowa
Chair, Respiration Section, American Physiological Society

EB POSTER PRESENTER AWARDS

We are asking more trainees to be part of this valuable service to the Respiration Section. If you are willing to judge, please email Mia Kelly (miankelly@gmail.com). We will reach out to our prospective judges before the meeting with a list of posters for each judge.

MENTORING CLUB

On April 3rd, we will dedicate the first 45-minutes of our breakfast to bringing together trainees and experienced faculty with shared research areas of interest. Trainees also have the option and unique opportunity to be paired with a respiration section faculty member for a one-on-one mentoring session.

Section members interested in serving as a mentor for this event, please reply to miankelly@gmail.com with the subject line “EB: Mentoring Club: Mentor.” Your participation and engagement are greatly appreciated.
Dear Respiratory Trainees,

On behalf of the trainee subcommittee and in collaboration with the trainee advisory committee (TAC), welcome! We are so excited to learn more about the research you’ve been involved in! I want to highlight a few key career development opportunities and trainee events you won’t want to miss. Don’t forget to mark your calendars for the Marilyn Merker Trainee Highlights Breakfast Sunday, April 3rd, 2022, 7:30 AM - 10:00 AM, Philadelphia Marriott Downtown, Liberty Ballroom C. This annual event will feature short, 2-minute talks from trainees to highlight their research and the opportunity to interact with a remarkable panel of mentors. The breakfast offers a more relaxed environment than that of main conference sessions and is an excellent opportunity to become acquainted with the wide range of respiratory research conducted across the section. If you are interested in giving a talk or participating in the mentoring club, please email me (miankelly@gmail.com). Faculty mentors, please consider signing up as a mentor. There’s a registered trainee who would benefit greatly from your advice and experience. Please be aware that the updated 2022 program creates an overlap between the Trainee Highlights and a session from our section. We apologize for this inconvenience and hope every member will be able to fully appreciate each event.

Be sure to check out the career development workshops as well. The trainee advisory committee (TAC) will be hosting a series of writing workshops on Each session will dive into essential elements of the writing process: Overcoming Writer’s Block: How to Write, Review, and Promote your Manuscript. April 3rd, 4th, and 5th 7:00 AM - 8:00 AM. (https://www.apsebmeeting.org/eb2022/schedule-sponsor.cfm?id=26). Contact Dr. Lila Wollman, of the Trainee Advisory Committee (TAC) (lilawollman@arizona.edu) for additional information.

Given the range and magnitude of sessions, posters, and events at EB, I encourage trainees to use the EB program and APS Member directory ahead of time to determine the sessions that feature investigators’ targeting questions that spark interest. The poster sessions can feel especially brief, and you’ll want to attend when the poster presenter is available. Attending your first conference can be overwhelming, but our goal is to increase accessibility to all attending trainees. If we can assist in helping navigate the conference environment, please don’t hesitate to reach out. We want to hear from you! All respiration section members are invited to share your recommendations, experience, and expectations in our brief “Pre-EB” Trainee Opportunity survey (https://ufl.qualtrics.com/je/form/SV_0NH8Kee5ILLGICu) prior to the event. I am humbled by the responses we’ve received thus far. Thank you to section members for your guidance, encouragement, and involvement. While this year’s meeting marks the end of an era - our last Experimental Biology meeting, it is also the beginning of something new: for many of us, this might be the first in-person conference in years. And for some trainees, the first-ever. May we celebrate the privilege to travel, connect and learn something new.

Lastly, these events would not be possible without the support of our sponsors and generous donors that contribute to the Respiration Section Trainee Endowment Fund. Thank you for your generous and ongoing support of trainees in our section. (https://give.the-aps.org/give/193705/#!/donation/checkout).

Sincerely,
Mia Kelly
Trainee Sub-Committee Chair, APS Respiration Section
Respiration Section Trainee Representative

Interested in helping with Section Activities?
A number of committees could use your help. For details, please contact the Chair, Melissa Bates (Melissa-bates@uiowa.edu)

Want to get involved at the Society level? Nominations for APS Committees are submitted in late fall. Please contact our Nominating Committee Co-Chair Jason Yuan (jxyuan@ucsd.edu) for more details.
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<th>Day</th>
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<tr>
<td><strong>Sunday, April 3</strong></td>
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<td><strong>SYMPOSIA, FEATURED TOPICS &amp; OTHER NOTABLE HAPPENINGS</strong></td>
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<td></td>
<td>7:00 AM – 8:00 AM</td>
<td>203 A (Trainee Advisory Committee)</td>
<td>Overcoming Writer’s Block: How to Write, Review, and Promote your Manuscript, Session #1</td>
<td>Victoria Wolf &amp; Benard Ogola</td>
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<td>8:30 AM – 10:00 AM</td>
<td>201 A (Respiration Section)</td>
<td>Biological Sex and Breathing</td>
<td>Ann Revill &amp; Adrianne Huxtable</td>
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<td>8:30 AM – 10:00 AM</td>
<td>203 B (Respiration Section)</td>
<td>Transition from Acute to Chronic Critical Illness After Pneumonia: Long-Term Outcomes, End-Organ Dysfunction and Mechanisms</td>
<td>Brant Wagener &amp; Ji Young Lee</td>
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<td>12:15 PM – 1:15 PM</td>
<td>202 B (APS)</td>
<td>Bodil M. Schmidt - Nielsen Distinguished Mentor Award Lecture</td>
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<td>1:30 PM – 3:00 PM</td>
<td>202 A (Respiration Section)</td>
<td>Sex Differences in Lung Pathophysiology</td>
<td>Patricia Silveyra &amp; Alicia Rizzo</td>
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<td>5:15 PM – 6:30 PM</td>
<td>Ballroom A (APS)</td>
<td>APS State of the Society Address and Physiology in Perspective: The Walter B. Cannon Award Lecture</td>
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<td>7:00 AM – 8:00 AM</td>
<td>203 A (Trainee Advisory Committee)</td>
<td>Overcoming Writer’s Block: How to Write, Review, and Promote your Manuscript, Session #2</td>
<td>Victoria Wolf &amp; Benard Ogola</td>
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<td>8:30 AM – 10:00 AM</td>
<td>203 A (APS)</td>
<td>2022 Annual Marion J. Siegman Lectureship Award</td>
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<td>1:30 PM – 3:00 PM</td>
<td>203 A (Respiration Section)</td>
<td>Next-Generation Sciencing: High Impact Research from Early Career Lung Physiologists</td>
<td>Christopher Waters &amp; Ramana Sidhaye</td>
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<td>1:30 PM – 3:00 PM</td>
<td>203 B (Hypoxia Group)</td>
<td>The Lahiri-Cherniak Lecture Symposium</td>
<td>Peter MacFarlane</td>
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<td>1:30 PM – 3:00 PM</td>
<td>204 A (Respiration Section)</td>
<td>Respiratory Dysfunction in Neurological Disease and Injury: Mechanisms and Potential Therapeutics</td>
<td>Irene Solomon &amp; Savannah Lusk</td>
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<td>Ballroom A (APS)</td>
<td>APS Investigator and Trainee Awardee Recognition</td>
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<td><strong>Tuesday, April 5</strong></td>
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<td>7:00 AM – 8:00 AM</td>
<td>203 A (Trainee Advisory Committee)</td>
<td>Overcoming Writer’s Block: How to Write, Review, and Promote your Manuscript, Session #3</td>
<td>Victoria Wolf &amp; Benard Ogola</td>
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<td>8:30 AM – 10:00 AM</td>
<td>204 C (Respiration Section)</td>
<td>Chronic Intermittent Hypoxia and Neural function</td>
<td>Elisa Gonzalez-Rothi &amp; Alfredo Garcia</td>
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<td>1:30 PM – 3:00 PM</td>
<td>204 C (Respiration Section)</td>
<td>Julius H. Comroe, Jr. Distinguished Lectureship of the APS Respiration Section</td>
<td>Larissa Shimoda</td>
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<td>3:30 PM – 5:00 PM</td>
<td>204 A (Respiration Section)</td>
<td>SARS-CoV-2: New Mechanistic Insights</td>
<td>Karen Ridge &amp; Jaime Hook</td>
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<td>3:30 PM – 5:00 PM</td>
<td>204 C (Respiration Section)</td>
<td>The Dynamics of Aerodigestion: Chewing, Swallow and Breathing</td>
<td>Teresa Pitts &amp; Rebecca German</td>
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<td>5:00 PM – 6:30 PM</td>
<td>Ballroom A (APS)</td>
<td>APS Tribute to APS Leaders and Nobel Prize Award Lecture</td>
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**SPECIAL EVENTS**

54th Non-Annual Control of Breathing Mixer
“Developmental Origins of Health and Disease” and Hot Topics in Respiratory Control

Guest Speakers: Dr. Estelle Gauda and Dr. Adrianne Huxtable
Saturday, April 2nd, 2022 from 5:00 - 8:00 PM, Pennsylvania Convention Center, Room 201B
Hosted by Dr. Nicole Nichols, Dr. Erica Levitt, Dr. Peter MacFarlane, Dr. Kevin Cummings

Annual Marilyn Merker Trainee Highlights

Sunday, April 3rd, 2022 at 7:30 - 10:00 AM, Philadelphia Marriott Downtown, Liberty Ballroom C
Hosted by the Trainee Sub-Committee

**NEWS FROM CAREER OPPORTUNITIES IN PHYSIOLOGY COMMITTEE**

1. APS’ 2022 Mentoring symposia are slated for Sun-Tues, each morning, during EB.

   - **Sunday, April 3rd, 7 - 8 AM, Room 203B**
     Title: Navigating Career Obstacles: Academic Ethics and Communication
     Speakers: Kim Barrett, PhD (University of California San Diego) and Paul O’Connor, PhD (Augusta University)

   - **Monday, April 4th, 7 - 8 AM, Room 203B**
     Title: Navigating Career Obstacles: Career Interruptions
     Speaker: Jennifer Pollock, PhD (University of Alabama at Birmingham)

   - **Tuesday, April 5th, 7 - 8 AM, Room 203B**
     Title: Navigating Career Obstacles: Handling Rejection
     Speaker: Keisa Mathis, PhD, FAHA (University of North Texas Health Science Center at Fort Worth)

2. APS’ 2022 Career symposia will be offered in a different format this year. The COPC and APS’ Career Gateway will be co-sponsoring a Brown Bag/Lunch & Learn webinar series on ‘Work-Life Balance’, which will take place over three Wednesdays in May 2022. Speakers for the 3-part series include Dr. Sharon Milgram (NIH Office of Intramural Training and Education), Dr. June Gruber (University of Colorado, Boulder) and Antonius Tsai, MBA (University of Utah Health). Information will be posted as soon as the final dates/times are confirmed.

3. The winner of this year’s Visual Abstract Award is Ms. Lindsey Ramirez, Medical College of Georgia, Augusta University.

4. Finally, we are excited to help promote APS’ new Career Gateway portal. A successful scientific career requires more than just scientific expertise. To maximize a career in science, investigators, clinicians, and educators need a well-rounded professional skill set, including leadership, management, and intentional career planning. The APS Career Gateway provides physiologists professional development for every step of their career journey. Please check out the link:
   [https://www.physiology.org/professional-development/career-professional-development/career-gateway?SSO=Y](https://www.physiology.org/professional-development/career-professional-development/career-gateway?SSO=Y)
**HAPPENINGS AND HIGHLIGHTS**

**SPECIAL ISSUE ON INTERMITTENT HYPOXIA**

Dr. Gordon Mitchell, Dr. Randy Trumbower, and Dr. Gillian Muir edited a Special Issue on Intermittent Hypoxia in Experimental Neurology, released February 2022. The issue contains 29 articles including clinical and preclinical studies, and reviews on the state of intermittent hypoxia.

https://tinyurl.com/23sh77as

**2022 INTERMITTENT HYPOXIA WORKSHOP**

UF BREATHE Center recently hosted researchers from across the world at its biannual 2-day *Intermittent Hypoxia Workshops & Retreat*. Topics ranged from basic-science and translational studies to clinical application of IH.

The full list of speakers and topics from this event can be found [here](#).
Please contact our newsletter committee to include additional seminars in the next newsletter edition at: jj.duke@nau.edu or jean-philippe.rousseau@unityhealth.to

MEMBER ACCOMPLISHMENTS

Dr. Jay Nair, a BREATHE member and former Mitchell Lab postdoc, has accepted a tenure-track position in the Department of Physical Therapy at Thomas Jefferson University in Philadelphia. Dr. Nair’s research program will focus on developing biomarkers for neurological injuries and diseases. Currently, he is working on a collaborative project that involves the Department of Physical Therapy, Radiology and Neuroscience at Jefferson University to identify early MRI-based biomarkers for ALS. Congratulations, Dr. Nair!

BREATHE Steering Committee member, Dr. Erica Levitt, has been selected as the 2022 recipient of the ASPET Neuropharmacology Early Career Award. She has been granted this award in recognition of her commitment to mentoring and for her highly impactful research on the mechanisms of opioid-induced respiratory depression.

Dr. Levitt will be presented this award by the Division for Neuropharmacology at the ASPET Annual Meeting at EB 2022 where she will present: “Brainstem Circuits Involved in Opioid-induced Respiratory Depression.” Congratulations, Dr. Levitt!

BREATHE Steering Committee member, Dr. Leah Reznikov, has been selected as the recipient of the 2021 Zoetis Award for Veterinary Research Excellence Award. Through this award, the American Veterinary Medical Association (AVMA) recognizes researchers whose innovative work has advanced the scientific standing of veterinary medicine. Congratulations, Dr. Reznikov!

BREATHE Center Postdoc Opportunity

We welcome applications from those interested in:

- respiratory neuroplasticity
- breathing & opioids
- respiratory muscle biology
- swallowing & dysphagia
- therapeutic intermittent hypoxia
- advancing treatment for SCI, ALS, PD, AD, DMD, Pompe & more

Apply by May 1, 2022

More Info: breathe-training@php.ufl.edu
# Meet Your Section Steering Committee

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution</th>
<th>Email Address</th>
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<tbody>
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<td>Newsletter Co-Editor</td>
<td>St. Michael’s Hospital</td>
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<tr>
<td>Sabhya Rana, PhD</td>
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<tr>
<td>Thomas C Resta, PhD</td>
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<tr>
<td>Nicole L Nichols, PhD</td>
<td>COB Rep</td>
<td>University of Missouri</td>
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JJ Duke, Ph.D.
Co-Editor
Associate Professor
Northern Arizona University
Flagstaff, AZ

JJ Duke grew up in Clovis, CA (just outside of Fresno in the center of the state). He completed his undergraduate degree at Arizona State University where he was also a member of the Sun Devil cross-country and track teams. He pursued his graduate degrees at the University of North Carolina at Chapel Hill (MA) and Indiana University (PhD). At IU he studied respiratory mechanics in endurance trained athletes. He completed his postdoctoral training at the University of Oregon in Andy Lovering’s lab where he studied regulation and consequences of blood flow through intrapulmonary shunts and pulmonary gas exchange in adult survivors of preterm birth. Upon leaving the U of O, JJ worked at Ohio University for 2 years before starting his position at Northern Arizona University in Flagstaff, AZ. JJ’s lab at NAU is focused upon a variety of integrative physiology questions including respiratory mechanics (pulmonary compliance, work of breathing, etc.) in healthy individuals and adults born preterm, as well as similar questions in various environments, i.e., altitude, apnea diving, etc. This is JJ’s first committee role and he is excited to make a positive impact and be more involved in the Respiration Section and APS. When not in the lab, JJ enjoys all things outdoors including running, hiking, and cycling. He and his wife, Brenna, are kept incredibly busy trying to tire out their “enthusiastic” sons Ian and Graham.

Jean-Philippe Rousseau, Ph.D.
Co-Editor
Postdoctoral Fellow
St. Michael’s Hospital
Toronto, ON, Canada

Jean-Philippe grew up in Montreal and moved to Quebec City to pursue his undergraduate studies in Biology at Laval University. Discovering a growing passion for research, he performed an M.Sc. followed by a Ph.D. in neuroscience at Laval University under the supervision of Dr. Richard Kinkead. During this time, he performed thorough research to assess the effect of perinatal thyroid hormone deficiency on respiratory neural network development using state-of-the-art tools on freely behaving animals and reduced medullary preparations. This experience allowed him to develop a passion for respiratory neurobiology. Looking to establish himself as an independent investigator in Canada, he then performed a postdoctoral fellowship under the supervision of Dr. Gaspard Montandon at St. Michael’s hospital, Toronto. JP specializes in neural control of breathing in rodents with a strong interest in optogenetics tool to stimulate breathing in intact animals. The project is focused on identifying the neural mechanisms regulating respiratory depression, analgesia, and sedation by opioid drugs. JP first served the APS respiration section as Trainee Sub-Committee Chair and is now enthusiastic to take on a new challenge editing the newsletter. Proud father of two young kids, he truly enjoys a family trip at the park or the beach but can’t say no to a good beer on a patio or the opportunity to spike volleyballs on the court.

Robert Wadolowski, M.S.
Subcommittee Member
PhD Student
Stony Brook University
Stony Brook, NY

Robert grew up in Long Island, New York. He is pursuing a graduate degree in Physiology and Biophysics under the mentorship of Dr. Irene Solomon at Stony Brook University. His graduate research initially focused on the effects of neural inflammation on respiration, but has since shifted to Parkinson’s disease and its impact on respiratory control and the associated neurotransmitter systems, as well as investigating how clinically relevant drugs may affect these altered systems. He has also developed an interest in programming and bioinformatics, and has dived into learning various signal-processing and statistical techniques from other fields and applying them to his research. In the future, he hopes to continue studying neural mechanisms that underlie motor function. Outside of the lab, Robert is an avid snowboarder and is actively exploring outdoor hobbies to pass the time between winter seasons, such as kayaking or mountain biking. Otherwise, he is a gamer, crafter, Dungeons & Dragons gamemaster, and all-around nerd. He serves the Graduate Student Organization at SBU as the Policy Action Chair to help advance the political interests of graduate students. Robert is excited to contribute to the newsletter committee and become further involved with the APS Respiration Section.

Christine Wang, M.S.
Subcommittee Member
PhD Student
Stony Brook University
Stony Brook, NY

Christine is in her third year of her PhD program in the Dept. of Physiology and Biophysics at Stony Brook University (SBU), NY, under the mentorship of Dr. Irene Solomon. Christine has a bachelor’s degree in Music Education from Mason Gross School of the Arts at Rutgers University, NJ, and a master’s degree in Physiology and Biophysics from SBU. Research during her master’s degree included translating findings from the spinal cord-injured rodent model to clinical models, specifically studying interlimb coordination and whether manipulating arm movements can drive coordination in the legs of healthy humans. In her PhD work, she is studying the effects of acute intermittent hypoxia (AIH) on respiratory and lower urinary tract function in rats after midthoracic spinal cord injury. She is currently working on clinical projects to further investigate the therapeutic effect of AIH in patients with bladder dysfunction, and aspires to continue working in translational research after her degree. Outside of academics, Christine is an active member of the Graduate Student Organization at SBU, advocating for graduate student welfare, financial assistance, and mental health. Christine was also a concert pianist and a firefighter, and loves outdoor activities like rugby, surfing, kayaking, rock climbing, and snowboarding.
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