

SOMERS HIGH SCHOOL SCIENCE RESEARCH F&UNDATI

Somers Science Research Foundation – Newsletter

Welcome to the Somers High School Science Research Foundation newsletter. The goal of this publication is to keep members informed and to provide the opportunity to learn more about the program, the students, and their work. Each newsletter will feature student biographies, important dates or deadlines, and other news.

Student Research Showcase

We are proud to highlight our Science Research participants.

Melissa Amante



I joined Science Research as a sophomore with a distinct interest in the field of Genetic Psychiatry. I found a mentor at the Stony Brook University Hospital department of Psychiatry and spent 3 weeks interning there. Although not doing research in my original field of interest, I completed a project on neuroimaging in Schizophrenia. My findings indicated that a previously unexplored area of the brain differed in patients with Schizophrenia compared to healthy controls, and that the size of this area was associated with auditory hallucinations. My



interest in auditory hallucinations developed because they are one of the leading causes of suicide in Schizophrenic patients.

Throughout my junior year, I competed with this project, placing 2nd at the Tri-County Science Fair, and was awarded a spot at the GENIUS Olympiad international

competition. Behind the scenes, I had not given up on my original ambition, and continued the search for a mentor in the field of Genetic Psychiatry. I struck gold with a mentor in the Psychiatric and Neurodevelopmental Genetics Unit at Massachusetts General Hospital. There I completed a 12-week remote internship where I looked at the association between perceived parental closeness and depressive symptoms in adolescents. My research could be used to identify protective factors against depression.

I will continue my work in this lab both throughout high school, and in college. Beyond college, I plan on pursuing a career in medical research, and specializing in Genetic Psychiatry.

Family and Community Q & A

A new monthly feature will include a section to answer questions from families, students, and community members. Please submit your questions using the Google Form below and they will be answered in the following newsletter edition. There is a lot to learn about the program and we hope to be able to answer any questions you may have.

Q&A Google Form: https://forms.gle/1bW7seLkr8aL3hPZA

Gift Giving with a Purpose!

You can show support for our science and research community by conveniently shopping online at Unique Design Creations for gifts! The Somers Science Research Foundation has teamed-up with Unique Design Creations to provide a win-win fundraising solution. You shop for family, friends and business associates anytime during the year, Unique Design Creations will give back 10% of the sale to the Somers Science Research Foundation.

To make a purchase and support SSRF, simply go to https://www.uniquedesigncreations.com/ select and purchase any gift items and during check-out indicate in the drop-down that you want to support Somers Science Research. After your purchase, Unique Design Creations will automatically give 10% of your purchase to SSRF.



Students Dates to Remember

WESEF Practice Night

Monday, March 8th at 7:00 p.m.

The WESEF practice night is dedicated for juniors and seniors who will be competing at WESEF to practice their presentations and receive feedback. The students will present 7-8 minute PowerPoint presentations in breakout rooms on Zoom followed by a short question and answer session. We are looking for parents, friends, family members, etc. to join us in providing students feedback, you do not need a background in science to provide constructive feedback.

Zoom Link:

https://somersschools.zoom.us/j/96918441648?pwd=TE9DUWdaUmVNT0FIWmMwdkVsNGdWdz09

Upcoming Competitions

WESEF- March 15 – 17th, 2021 as a virtual event between 5-9pm

WESEF is the Westchester Science and Engineering Fair and is a local symposium affiliated with the Regeneron International Science Fair serving budding scientists in Westchester & Putnam counties. Students deliver formal presentations of their scientific accomplishments in a poster forum to professional researchers in the local area. Students prepare a poster detailing their projects which, in most cases, have involved complex research conducted under the guidance of a professional researcher in their field of interest. Finalists of WESEF will attend the Regeneron International Science & Engineering Fair, where they will compete against the top high school research students from the USA and 40 additional countries.

For more detailed information please go to https://www.wesef.org/.

NYSSEF- March 11- 17, 2021 Judge scoring; March 22, 2021 Lightning Round participants announced; March 25, 2021 Live Lightning Round

NYSSEF is the International Science Engineering Fair/Society for Science affiliated state fair for New York and is for students in 9th through 12th grades. The top projects from the ISEF Division of NYSSEF will represent the State of New York at the 2021 ISEF.

For more detailed information please go to: https://www.nyssef.org/.

Volunteer Opportunities

The Somers Science Research Foundation is a booster organization that relies on parents and community members to support our program by volunteering their time. We welcome volunteers who want to support our hard-working students. Please email board@somersscienceresearch.com to learn more about opportunities to get involved.

Currently the board has the following open positions: Vice President Fundraising Chairperson

A background in science is not required to volunteer. The foundation board meets monthly via Zoom and is a non-profit organization that benefits from community involvement.

Tips for finding a mentor

As students begin their journey as student researchers, finding a mentor is an important and sometimes challenging step. Some suggestions for finding a mentor include:

- Don't be shy. Ask everyone and feel free to brag a little about yourself, your project and Somers Science Research in general. Check out what research facilities are in your area and reach out to those that fit your field of study.
- Always assume positive intent from those you reach out to, and follow-up once or twice if you don't hear back immediately.
- Be familiar with the mentor's research, and be specific about why it interests you.
- Friends and classmates may be able to suggest former mentors, so use social media platforms to connect with alumni.

What's going on in the Science Research classroom this month?

SENIORS: Seniors are now shifting from the JSHS competition to WESEF which includes trimming down their presentations to 7 minutes. Students will be practicing their presentations weekly until competition time in early March.

JUNIORS: Juniors with completed projects are joining the seniors in preparing for WESEF. They are working on finalizing their presentations and practicing weekly. Juniors who recently secured mentors are working with those mentors to develop their research plan and begin data collection.

SOPHOMORES: The mentor search is continuing for our very determined sophomore class, almost weekly we have new students securing mentorship and beginning to design their research. Students who have yet to secure a mentor are diligently emailing authors and research institutions. Additionally, the sophomores are learning the art of project development by identifying a gap in literature and writing an introduction and review of literature to support their research gap. This skill will be very important when they begin developing their own projects, and for some of them, this gap in research may become their future project!

Highlights from Alumni Night & WR-JSHS Practice Night

On Thursday January 21, 2021 alumni from the class of 2020 reunited at an interactive event with current students and parents. Roughly 30 Somers Science Research Alumni from the class of 2013 through 2019 joined us in our first Alumni Night. It was great to catch up with each former student to see where life has taken them and the great things they've accomplished. Our current students were able to ask questions and receive feedback from our alumni panel regarding topics such as obtaining mentors, college interviews and how participating in the science research program helped in their future endeavors.

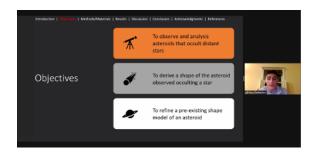


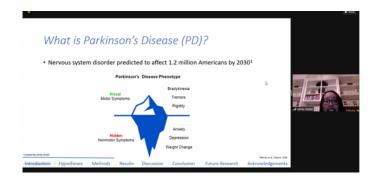


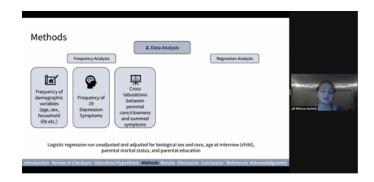




The WR-JSHS practice night was a great success! Seniors presented their research in and received feedback for the upcoming WR-JSHS competition. The 12 minute PowerPoint presentations were followed by a short question and answer session. Thank you to all the parents, friends, family members, etc. who joined us to provide the students with feedback.



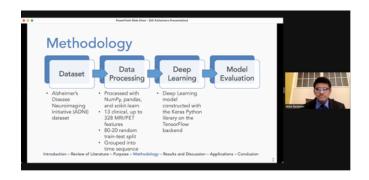




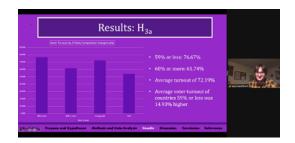




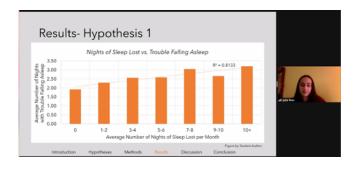


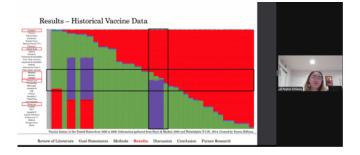












Support Science Research

The Somers Science Research Program relies on the generous support of our donors in the community. In addition to fundraising efforts by the foundation committee, your contribution will help to support the program by funding events, equipment and travel. Contributions to the SSRF are tax-deductible.

https://www.somersscienceresearch.com/donations.html

Annual Dues

Just a friendly reminder to pay your annual suggested membership donation of \$20 for the year. This can conveniently be done through https://www.myschoolbucks.com or via the website at

https://www.somersscienceresearch.com/store.html. Members are recognized in the program book at the annual Science Research Symposium in May and on a donor poster at the Somers Science Fair in June, as well as on the 'Donations' page of the website. Contributions to the SSRF are tax-deductible.

Car Window Stickers are still available.

Please email <u>WMaelia@somersschools.org</u> to get a sticker at no charge.

Somers Science Research Store

Support the program by showing off your Science Research gear! Please take a look at the items available for sale at https://www.somersscienceresearch.com/store.html.







Fundraising Activities

Amazon Smiles

The Somers Science Research Foundation Incorporated now has an Amazon Smile account so that your everyday shopping can benefit our students. If you specify SSRF as your charity and make smile.amazon.com your default amazon link (in place of amazon.com), 0.5% of every purchase you make on Amazon will be donated to the Foundation to benefit our students and their research. Once it's set up you don't need to do anything else!

Click below to sign up and start donating:



Somers Science Research

Detailed information about the program is available on our website at https://www.somersscienceresearch.com/home.html Some of the information you will find there includes the course overview, timeline, and areas of research. Additionally, you can learn about the foundation, the competitions and access pictures/videos from previous years.