

Barrow High School and Undergraduate Summer Internship Programs



Educating future generations of neuroscience specialists has always been a cornerstone of Barrow's mission. Thanks to the generosity of donors like you, we can start this process early by inspiring high school and undergraduate students to pursue their passion for science and medicine.

Led by Rita Sattler, MSc, PhD, the High School and Undergraduate Summer Internship Programs provide students with an all-encompassing neuroscience education experience under the mentorship of Barrow experts. Last year, students interned in the Ivy Brain Tumor Center, Neuroimaging Center, Thurston Innovation Center, Neuroscience Publications, Spinal Biomechanics Laboratory, Virtual Reality Spine Laboratory, Neuro-Rehabilitation Center, basic and translational research laboratories, marketing, and philanthropy.

IMPACT OF PHILANTHROPY



HIGH SCHOOL

267 high school applicants;
13 placed



UNDERGRADUATE

289 undergraduate applicants;
38 placed



MENTORS

27 Barrow mentors

Your Support Inspires Future Neuroscience Specialists

Our interns had several unique opportunities to further engage with Barrow specialists and develop skills that will benefit them throughout their careers.

Tuesday Seminars

During Tuesday Seminars, students learned about topics of interest in neuroscience directly from Barrow faculty. The seminars featured two speakers from each department: one clinician and one scientist, allowing them to see firsthand the critical role research plays in shaping clinical care. Topics covered included brain tumors, neurovascular disorders, Parkinson's disease, ALS, and more.

Neuroscience Technology Boot Camps

The weekly Neuroscience Technology Boot Camps allowed students to become familiar with

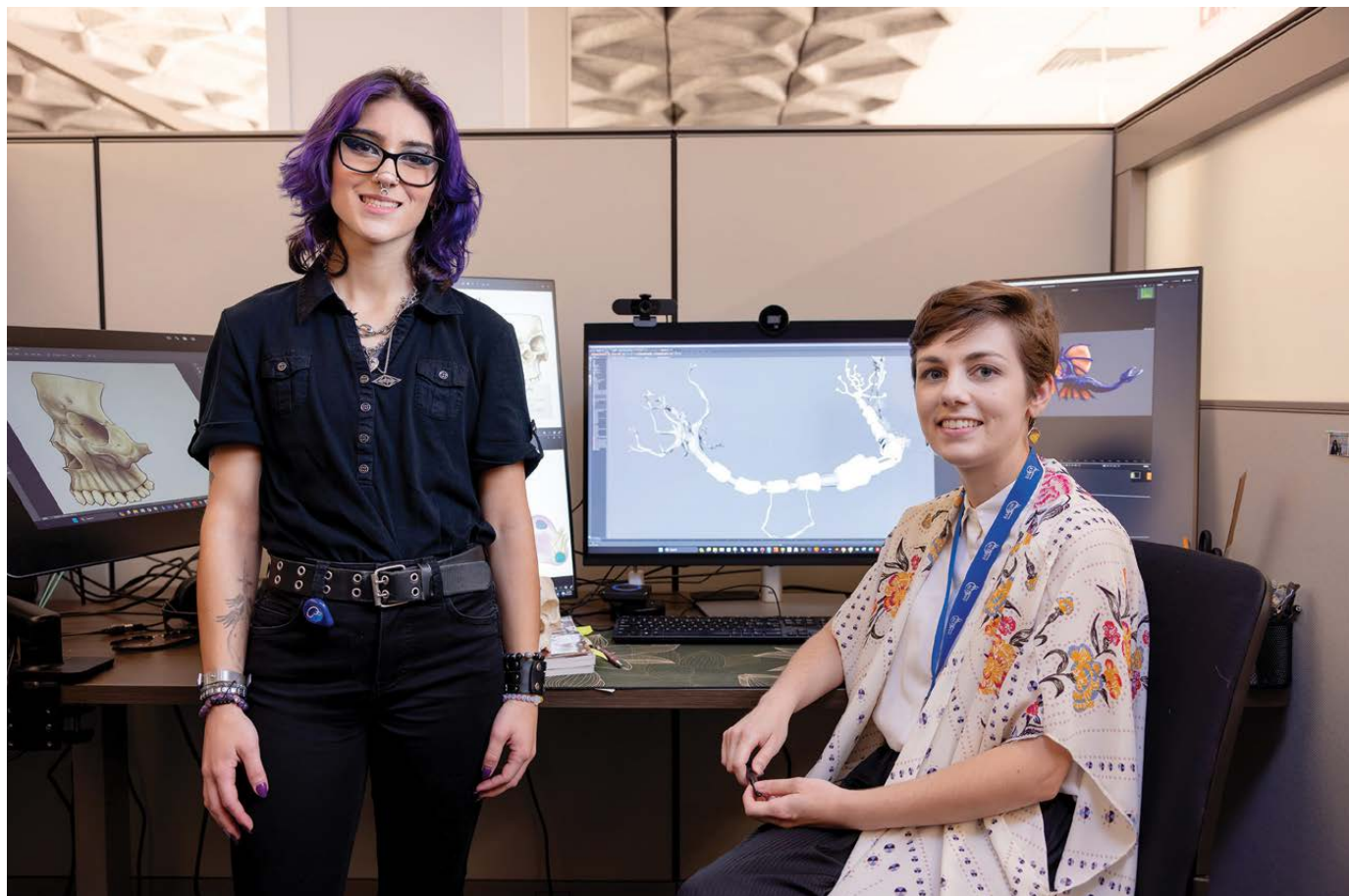
state-of-the-art technologies integral to conducting neuroscience research. Topics covered included biomarkers, RNA sequencing, induced pluripotent stem cells, and CRISPR-Cas9 genome editing.

Career Day Panel

Barrow hosted a Career Day Panel and Q&A session for interns. During this panel, faculty and staff, along with medical and graduate students, shared their experiences and expertise.

High School and Undergraduate Symposiums

At the end of the summer, students presented their research either orally or as a poster to their peers and Barrow faculty at their respective symposiums.



From Our 2024 Summer Students



“I was fascinated by the research in Dr. Rita Sattler’s lab and knew it was something I wanted to be a part of. I feel so honored to have been given the opportunity to contribute to this groundbreaking research, knowing that one day, it’ll change the lives of so many ALS/FTD patients and their families.”

Avery Carter,
Junior at Northern Arizona University
Mentor: Rita Sattler, MSc, PhD

“I am incredibly grateful to have been able to gain more hands-on experience in aneurysm and AVM research in the Hashimoto Lab. This internship has made a significant impact on my education and ability to learn more in the lab.”

Hannah Jackson,
Sophomore at BASIS Chandler
Mentor: Tomoki Hashimoto, PhD

“I am so grateful that the Ivy Brain Tumor Center has opened its doors as a hub for curious high schoolers to participate in critical research. It is so inspiring to be able to observe the most advanced and critical brain tumor research.”

Evangeline Little,
Junior at Cate High School
Mentor: Shwetal Mehta, PhD

“My mentors taught me so much about the applications of technology in the medical field. Working in the Spine Virtual Reality (VR) Lab allowed me to see how cutting-edge technology like VR and artificial intelligence can be used to enhance patient and provider experiences.”

Daniel Zhu,
Junior at Brown University
Mentor: Chinami Michaels



On The Horizon

Applications for the 2025 High School and Undergraduate Summer Internship Programs open in December and January, respectively. In spring 2025, Barrow will hold its annual Young Scholars Program Neuroscience Boot Camp. This unique opportunity allows high school students to explore their interest in the neurosciences through four days of laboratory tours and discussions with Barrow clinicians and scientists.

“This internship will provide the next generation of neuroscientists and clinicians with a unique opportunity to jumpstart their careers and hopefully ignite an everlasting passion for studying and treating brain diseases. We are excited and proud to be able to contribute to their education.”

Rita Sattler, PhD



The mission of Barrow Neurological Foundation is simple: to be the catalyst of our donors' passion for transformation by providing the resources for Barrow Neurological Institute to achieve its mission of saving human lives through innovative treatment, groundbreaking research, and educating the next generation of the world's leading neuroscience specialists.