

AWARDS CEREMONY

2021 SOUTHEAST REGIONAL
TOURNAMENT

FEB 27, 2021

HOSTED BY FAU

UNDERGRADUATE RESEARCH AT FAU ??

YES!—OURI

OFFICE OF UNDERGRADUATE RESEARCH AND INQUIRY



OFFICE OF UNDERGRADUATE RESEARCH AND INQUIRY



- **Curricular Initiatives**
- **Co-Curricular URI student opportunities**
- **Faculty and Student Support and Recognition**

OFFICE OF UNDERGRADUATE RESEARCH AND INQUIRY

- OURI serves as a centralized support office for FAU faculty, staff and students who are engaged in undergraduate research, scholarship, and creative activities.
- We offer university wide programs such as
 - undergraduate research grants
 - undergraduate research symposium
 - undergraduate research journal
 - support for faculty and students through our Peer Mentor program
- “Undergraduate Research for All!”

STUDENT SPOTLIGHT



Vivek Sreejithkumar, OURI Peer Mentor

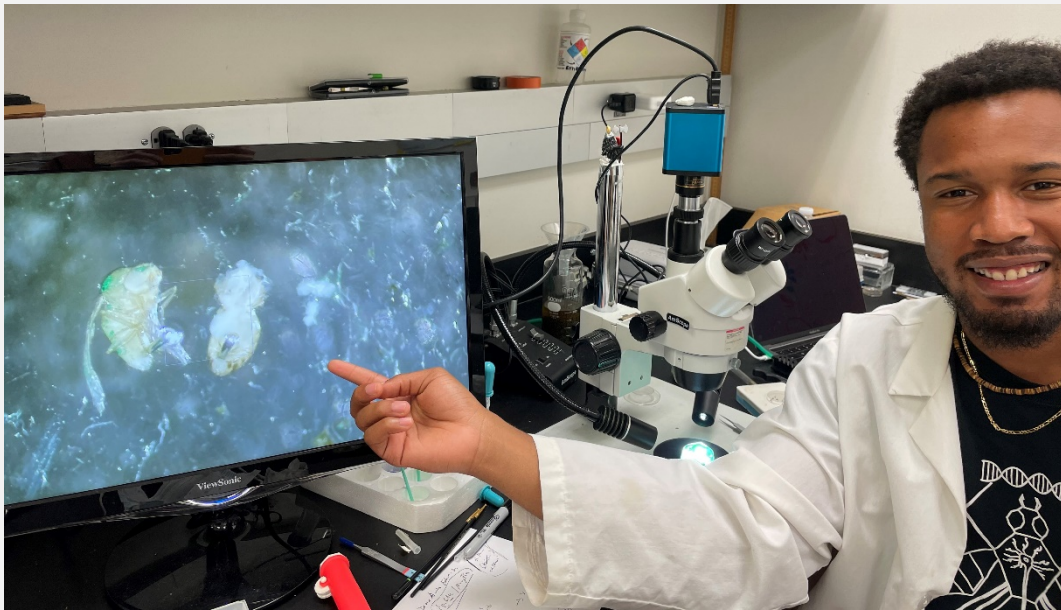
Faculty Mentor: Michael Smirnov, Ph.D., MPFI for Neuroscience

Email: vsreejithkum2018@fau.edu

Undergraduate Researcher, FAUHS

- Mathematical Modeling of Infectious Diseases
 - H1N1 Influenza
 - COVID-19
- PEACE: Protecting the Elderly with AI for Clinical Emergencies
 - Machine Learning Fall Detection project in MPCR Lab
- Bolton Lab at the Max Planck Florida Institute for Neuroscience

STUDENT SPOTLIGHT



Wayne Robinson, FAU Brain Institute

Faculty Mentor: Tanja Godenschwege, Ph.D. and
Alex Keene, Ph.D.

Email: wrobinson2018@fau.edu

Undergraduate Researcher

- Testing the effects of cellular stress and how it affects the death of cells and death of humans
 - Used towards understanding cellular basis of neurological diseases such as Alzheimer's and Parkinson's
- Investigating genetic differences in surface and cave fish to analyze what behavioral and morphological changes may occur as a result
 - Used towards understanding genetic and environmental differences for which behavior may be altered

STUDENT SPOTLIGHT **Vanessa Stubbs**



Faculty Mentor: Ceylan Isgor Ph.D.

Email: vstubbs2014@fau.edu

Undergraduate Researcher, Epilepsy Lab, NSF-LEARN

- Compares the brains of mice who have not experienced seizures, mice who are seizure prone, and mice who will not experience seizures
 - Uses a mouse model that overexpresses BDNF, a protein associated with seizures
 - Utilizes a confocal microscope to obtain 3-D images of the specific areas in the brain.

OFFICE OF UNDERGRADUATE RESEARCH AND INQUIRY

How can I learn more?

- Visit OURI Website: <https://www.fau.edu/our/>
- Meet with a Peer Mentor:
https://www.fau.edu/our/meet_our_mentors.php
- Join our mailing list: email our@fau.edu to request
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 - Instagram: fau_our
 - Twitter: @faouri



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- Reminder: medals and trophies will be mailed within the next few weeks to the address that you provided
- If you have not provided an address, please do so ASAP
- Package will contain medals only, no list of which teams / students get which medal(s)
- Advancement to state:
 - Division B—8 Teams
 - Division C—18 Teams
- Watch for an email invite from Valerie in the state office

DIVISION B - ANATOMY & PHYSIOLOGY

1. American Heritage Plantation - Team Gold (B02)

2. New Springs Schools - NSS (B20)

3. Archimedean Middle Conservatory - Archie Owls Beta (B04)

4. American Heritage Plantation - Team Black (B01)

5. Archimedean Middle Conservatory - Archie Owls Alpha (B03)

6. Broward Math and Science Schools - BMSS (B05)

DIVISION C - ANATOMY & PHYSIOLOGY

1. Archimedean Upper Conservatory - Beta Archimedean (C03)

2. American Heritage Plantation - AHS (C38)

3. Boca Raton Community - Boca Raton Team 1 (C06)

4. St. Thomas Aquinas - STAHS SO (C22)

5. Everglades - Gators (C13)

6. Archimedean Upper Conservatory - Alpha Archimedean (C02)

DIVISION B - BOOMILEVER

1. American Heritage Plantation - Team Gold (B02)
2. Archimedean Middle Conservatory - Archie Owls Alpha (B03)
3. American Heritage Plantation - Team Black (B01)

DIVISION C - ASTRONOMY

1. Boca Raton Community - Boca Raton Team 1 (C06)
2. Archimedean Upper Conservatory - Alpha Archimedean (C02)
3. Florida Atlantic University - FAU High School A (C14)
4. American Heritage Boca-Delray - AHS Boca/Delray (C01)
5. West Broward - WeBro Blue (C35)
6. St. Thomas Aquinas - STAHS SO2 (C23)

DIVISION B - CIRCUIT LAB

1. American Heritage Plantation - Team Gold (B02)
2. Archimedean Middle Conservatory - Archie Owls Beta (B04)
3. American Heritage Plantation - Team Black (B01)
4. Archimedean Middle Conservatory - Archie Owls Alpha (B03)
5. New Springs Schools - NSS (B20)
6. Rise Academy - RISE Academy (B07)

DIVISION C - BOOMILEVER

1. Boca Raton Community - Boca Raton Team 2 (C07)
2. Boca Raton Community - Boca Raton Team 1 (C06)
3. Archimedean Upper Conservatory - Beta Archimedean (C03)
4. Archimedean Upper Conservatory - Alpha Archimedean (C02)
5. Archimedean Upper Conservatory - Gamma Archimedean (C04)
6. Florida Atlantic University - FAU High School A (C14)

DIVISION B - CRIME BUSTERS

1. American Heritage Plantation - Team Gold (B02)

2. St. Joan of Arc Catholic School - SJA (B17)

3. All Saints Catholic School - All Saints Eagles (B18)

4. American Heritage Plantation - Team Black (B01)

5. OLSEN MIDDLE SCHOOL - Vikings Gold Team (B09)

6. Archimedean Middle Conservatory - Archie Owls Alpha (B03)

DIVISION C - CHEMISTRY LAB

1. Archimedean Upper Conservatory - Alpha Archimedean (C02)

2. Boca Raton Community - Boca Raton Team 1 (C06)

3. Archimedean Upper Conservatory - Beta Archimedean (C03)

4. American Heritage Boca-Delray - AHS Boca/Delray (C01)

5. Doral Academy - Firebirds (C30)

6. American Heritage Plantation - AHS (C38)

DIVISION B - DENSITY LAB

1. Archimedean Middle Conservatory - Archie Owls Alpha (B03)

2. OLSEN MIDDLE SCHOOL - Vikings Red Team (B10)

3. St. Joan of Arc Catholic School - SJA (B17)

4. American Heritage Plantation - Team Gold (B02)

5. Broward Math and Science Schools - BMSS (B05)

6. American Heritage Plantation - Team Black (B01)

DIVISION C - CIRCUIT LAB

1. American Heritage Boca-Delray - AHS Boca/Delray (C01)

2. Doral Academy - Firebirds (C30)

3. Suncoast - Suncoast B (C25)

4. Suncoast - Suncoast A (C24)

5. Florida Atlantic University - FAU High School A (C14)

6. American Heritage Plantation - AHS (C38)

DIVISION B - DISEASE DETECTIVES

1. Archimedean Middle Conservatory - Archie Owls Alpha (B03)
2. Archimedean Middle Conservatory - Archie Owls Beta (B04)
3. St. Joan of Arc Catholic School - SJA (B17)
4. OLSEN MIDDLE SCHOOL - Vikings Red Team (B10)
5. American Heritage Plantation - Team Black (B01)
6. American Heritage Plantation - Team Gold (B02)

DIVISION C - CODEBUSTERS

1. American Heritage Plantation - AHS (C38)
2. Archimedean Upper Conservatory - Beta Archimedean (C03)
3. St. Thomas Aquinas - STAHS SO (C22)
4. Archimedean Upper Conservatory - Alpha Archimedean (C02)
5. Florida Atlantic University - FAU High School A (C14)
6. Boca Raton Community - Boca Raton Team 3 (C08)

DIVISION B - DYNAMIC PLANET

1. Archimedean Middle Conservatory - Archie Owls Alpha (B03)

2. American Heritage Plantation - Team Gold (B02)

3. American Heritage Plantation - Team Black (B01)

4. St. Joan of Arc Catholic School - SJA (B17)

5. OLSEN MIDDLE SCHOOL - Vikings Gold Team (B09)

6. Broward Math and Science Schools - BMSS (B05)

DIVISION C - DESIGNER GENES

1. Boca Raton Community - Boca Raton Team 1 (C06)

2. Everglades - Gators (C13)

3. Archimedean Upper Conservatory - Alpha Archimedean (C02)

4. Boca Raton Community - Boca Raton Team 3 (C08)

5. Archimedean Upper Conservatory - Beta Archimedean (C03)

6. American Heritage Plantation - AHS (C38)

DIVISION B - ELASTIC LAUNCHED GLIDERS *

1. American Heritage Plantation - Team Gold (B02)

2. Archimedean Middle Conservatory - Archie Owls Alpha (B03)

3. Archimedean Middle Conservatory - Archie Owls Beta (B04)

4. Saint Andrew Catholic School - SACS (B08)

5. All Saints Catholic School - All Saints Eagles (B18)

DIVISION C - DETECTOR BUILDING

1. Archimedean Upper Conservatory - Alpha Archimedean (C02)
2. Archimedean Upper Conservatory - Beta Archimedean (C03)
3. Spanish River - SRHS Team B (C33)
4. Boca Raton Community - Boca Raton Team 1 (C06)
5. Florida Atlantic University - FAU High School A (C14)
6. Boca Raton Community - Boca Raton Team 4 (C09)

DIVISION B - EXPERIMENTAL DESIGN

1. Archimedean Middle Conservatory - Archie Owls Alpha (B03)
2. Archimedean Middle Conservatory - Archie Owls Beta (B04)
3. American Heritage Plantation - Team Gold (B02)
4. American Heritage Plantation - Team Black (B01)
5. OLSEN MIDDLE SCHOOL - Vikings Gold Team (B09)
6. New Springs Schools - NSS (B20)

DIVISION C - DISEASE DETECTIVES

1. Boca Raton Community - Boca Raton Team 1 (C06)
2. Archimedean Upper Conservatory - Alpha Archimedean (C02)
3. American Heritage Plantation - AHS (C38)
4. Archimedean Upper Conservatory - Beta Archimedean (C03)
5. Florida Atlantic University - FAU High School Team B (C15)
6. Doral Academy - Firebirds (C30)

DIVISION B - FOOD SCIENCE

1. American Heritage Plantation - Team Gold (B02)
2. Archimedean Middle Conservatory - Archie Owls Alpha (B03)
3. American Heritage Plantation - Team Black (B01)
4. Archimedean Middle Conservatory - Archie Owls Beta (B04)
5. St. Joan of Arc Catholic School - SJA (B17)
6. OLSEN MIDDLE SCHOOL - Vikings Gold Team (B09)

DIVISION C - DYNAMIC PLANET

1. Boca Raton Community - Boca Raton Team 2 (C07)
2. Archimedean Upper Conservatory - Beta Archimedean (C03)
3. American Heritage Boca-Delray - AHS Boca/Delray (C01)
4. Florida Atlantic University - FAU High School Team B (C15)
5. Archimedean Upper Conservatory - Alpha Archimedean (C02)
6. Everglades - Gators (C13)

DIVISION B - FOSSILS

1. American Heritage Plantation - Team Gold (B02)

2. American Heritage Plantation - Team Black (B01)

3. Archimedean Middle Conservatory - Archie Owls Alpha (B03)

4. Archimedean Middle Conservatory - Archie Owls Beta (B04)

5. New Springs Schools - NSS (B20)

6. Saint Andrew Catholic School - SACS (B08)

DIVISION C - EXPERIMENTAL DESIGN

1. Boca Raton Community - Boca Raton Team 1 (C06)
2. Archimedean Upper Conservatory - Alpha Archimedean (C02)
3. Archimedean Upper Conservatory - Gamma Archimedean (C04)
4. Florida Atlantic University - FAU High School Team B (C15)
5. American Heritage Plantation - AHS (C38)
6. Archimedean Upper Conservatory - Beta Archimedean (C03)

DIVISION B - GAME ON

1. Archimedean Middle Conservatory - Archie Owls Alpha (B03)

2. Archimedean Middle Conservatory - Archie Owls Beta (B04)

3. American Heritage Plantation - Team Black (B01)

4. Rise Academy - RISE Academy (B07)

5. Saint Andrew Catholic School - SACS (B08)

6. OLSEN MIDDLE SCHOOL - Vikings Gold Team (B09)

DIVISION C - FORENSICS

1. Boca Raton Community - Boca Raton Team 1 (C06)
2. Archimedean Upper Conservatory - Alpha Archimedean (C02)
3. Archimedean Upper Conservatory - Beta Archimedean (C03)
4. Everglades - Gators (C13)
5. Boca Raton Community - Boca Raton Team 4 (C09)
6. Archimedean Upper Conservatory - Gamma Archimedean (C04)

DIVISION B - HEREDITY

1. Archimedean Middle Conservatory - Archie Owls Alpha (B03)

2. Archimedean Middle Conservatory - Archie Owls Beta (B04)

3. American Heritage Plantation - Team Black (B01)

4. New Springs Schools - NSS (B20)

5. All Saints Catholic School - All Saints Eagles (B18)

6. American Heritage Plantation - Team Gold (B02)

DIVISION C - FOSSILS

1. Archimedean Upper Conservatory - Alpha Archimedean (C02)

2. Boca Raton Community - Boca Raton Team 1 (C06)

3. Archimedean Upper Conservatory - Gamma Archimedean (C04)

4. Archbishop McCarthy - AMHS (C26)

5. St. Thomas Aquinas - STAHS SO (C22)

6. American Heritage Plantation - AHS (C38)

DIVISION B - MACHINES

1. American Heritage Plantation - Team Gold (B02)
2. Archimedean Middle Conservatory - Archie Owls Alpha (B03)
3. New Springs Schools - NSS (B20)
4. Archimedean Middle Conservatory - Archie Owls Beta (B04)
5. American Heritage Plantation - Team Black (B01)
6. All Saints Catholic School - All Saints Eagles (B18)

DIVISION C - GEOLOGIC MAPPING

1. Everglades - Gators (C13)
2. Archimedean Upper Conservatory - Beta Archimedean (C03)
3. Everglades - Chompers (C12)
4. St. Thomas Aquinas - STAHS SO (C22)
5. Doral Academy - Glenn (C31)
6. Boca Raton Community - Boca Raton Team 2 (C07)

DIVISION B - METEOROLOGY

1. American Heritage Plantation - Team Gold (B02)
2. OLSEN MIDDLE SCHOOL - Vikings Gold Team (B09)
3. American Heritage Plantation - Team Black (B01)
4. Broward Math and Science Schools - BMSS (B05)
5. Archimedean Middle Conservatory - Archie Owls Alpha (B03)
6. St. Joan of Arc Catholic School - SJA (B17)

DIVISION C - GRAVITY VEHICLE

1. Archimedean Upper Conservatory - Beta Archimedean (C03)
2. Archimedean Upper Conservatory - Alpha Archimedean (C02)
3. Archimedean Upper Conservatory - Gamma Archimedean (C04)
4. Boca Raton Community - Boca Raton Team 1 (C06)
5. Florida Atlantic University - FAU High School A (C14)
6. Boca Raton Community - Boca Raton Team 4 (C09)

DIVISION B - MISSION POSSIBLE

1. American Heritage Plantation - Team Gold (B02)

2. American Heritage Plantation - Team Black (B01)

3. Archimedean Middle Conservatory - Archie Owls Alpha (B03)

4. Archimedean Middle Conservatory - Archie Owls Beta (B04)

5. Saint Andrew Catholic School - SACS (B08)

6. All Saints Catholic School - All Saints Eagles (B18)

DIVISION C - MACHINES

1. Florida Atlantic University - FAU High School A (C14)
2. Archimedean Upper Conservatory - Alpha Archimedean (C02)
3. American Heritage Boca-Delray - AHS Boca/Delray (C01)
4. Archimedean Upper Conservatory - Beta Archimedean (C03)
5. Everglades - Gators (C13)
6. Suncoast - Suncoast A (C24)

DIVISION B - MOUSETRAP VEHICLE

1. American Heritage Plantation - Team Gold (B02)
2. American Heritage Plantation - Team Black (B01)
3. Archimedean Middle Conservatory - Archie Owls Alpha (B03)
4. Saint Andrew Catholic School - SACS (B08)
5. All Saints Catholic School - All Saints Eagles (B18)
6. New Springs Schools - NSS (B20)

DIVISION C - ORNITHOLOGY

1. Florida Atlantic University - FAU High School A (C14)

2. Doral Academy - Firebirds (C30)

3. Boca Raton Community - Boca Raton Team 1 (C06)

4. Archimedean Upper Conservatory - Gamma Archimedean (C04)

5. South Broward - SBHS (C21)

6. Suncoast - Suncoast A (C24)

DIVISION B - ORNITHOLOGY

1. American Heritage Plantation - Team Gold (B02)
2. Archimedean Middle Conservatory - Archie Owls Alpha (B03)
3. New Springs Schools - NSS (B20)
4. American Heritage Plantation - Team Black (B01)
5. Archimedean Middle Conservatory - Archie Owls Beta (B04)
6. OLSEN MIDDLE SCHOOL - Vikings Gold Team (B09)

DIVISION C - PING-PONG PARACHUTE *

1. Suncoast - Suncoast A (C24)
2. Coral Glades - Coral Glades (C27)
3. Florida Atlantic University - FAU High School Team C (C16)
4. Florida Atlantic University - FAU High School Team B (C15)
5. Florida Atlantic University - FAU High School A (C14)
6. West Broward - WeBro Silver (C36)

DIVISION B - PING-PONG PARACHUTE *

1. Archimedean Middle Conservatory - Archie Owls Alpha (B03)

2. Archimedean Middle Conservatory - Archie Owls Beta (B04)

3. Saint Andrew Catholic School - SACS (B08)

4. All Saints Catholic School - All Saints Eagles (B18)

5. American Heritage Plantation - Team Black (B01)

6. American Heritage Plantation - Team Gold (B02)

DIVISION C - PROTEIN MODELING

1. Boca Raton Community - Boca Raton Team 1 (C06)

1. Everglades - Gators (C13)

3. Archimedean Upper Conservatory - Beta Archimedean (C03)

4. Archimedean Upper Conservatory - Gamma Archimedean (C04)

5. Boca Raton Community - Boca Raton Team 4 (C09)

6. Archimedean Upper Conservatory - Alpha Archimedean (C02)

DIVISION B - REACH FOR THE STARS

1. American Heritage Plantation - Team Gold (B02)
2. Archimedean Middle Conservatory - Archie Owls Alpha (B03)
3. American Heritage Plantation - Team Black (B01)
4. Archimedean Middle Conservatory - Archie Owls Beta (B04)
5. St. Joan of Arc Catholic School - SJA (B17)
6. OLSEN MIDDLE SCHOOL - Vikings Gold Team (B09)

DIVISION C - SOUNDS OF MUSIC

1. Boca Raton Community - Boca Raton Team 1 (C06)
2. Archimedean Upper Conservatory - Alpha Archimedean (C02)
3. Archimedean Upper Conservatory - Beta Archimedean (C03)
4. South Broward - SBHS (C21)
5. Florida Atlantic University - FAU High School A (C14)
6. Boca Raton Community - Boca Raton Team 2 (C07)

DIVISION B - ROAD SCHOLAR

1. American Heritage Plantation - Team Gold (B02)
2. Archimedean Middle Conservatory - Archie Owls Beta (B04)
3. New Springs Schools - NSS (B20)
4. Archimedean Middle Conservatory - Archie Owls Alpha (B03)
5. American Heritage Plantation - Team Black (B01)
6. OLSEN MIDDLE SCHOOL - Vikings Gold Team (B09)

DIVISION C - WATER QUALITY

1. Archimedean Upper Conservatory - Alpha Archimedean (C02)

2. Boca Raton Community - Boca Raton Team 1 (C06)

3. Florida Atlantic University - FAU High School A (C14)

4. Archimedean Upper Conservatory - Beta Archimedean (C03)

5. St. Thomas Aquinas - STAHS SO (C22)

6. Everglades - Gators (C13)

DIVISION B - WATER QUALITY

1. American Heritage Plantation - Team Gold (B02)

2. Archimedean Middle Conservatory - Archie Owls Beta (B04)

3. Archimedean Middle Conservatory - Archie Owls Alpha (B03)

4. American Heritage Plantation - Team Black (B01)

5. New Springs Schools - NSS (B20)

6. All Saints Catholic School - All Saints Eagles (B18)

DIVISION C - WRIGHT STUFF *

1. Archimedean Upper Conservatory - Beta Archimedean (C03)

2. Navarre - Florida - NHS Team A (C17)

3. Florida Atlantic University - FAU High School Team C (C16)

4. Archimedean Upper Conservatory - Alpha Archimedean (C02)

5. Coral Glades - Coral Glades (C27)

6. Florida Atlantic University - FAU High School A (C14)

DIVISION B - WRITE IT, CAD IT

1. Saint Andrew Catholic School - SACS (B08)
2. American Heritage Plantation - Team Gold (B02)
3. Archimedean Middle Conservatory - Archie Owls Alpha (B03)
4. American Heritage Plantation - Team Black (B01)
5. New Springs Schools - NSS (B20)
6. Archimedean Middle Conservatory - Archie Owls Beta (B04)

DIVISION C - WRITE IT, CAD IT

1. Suncoast - Suncoast A (C24)
2. Archimedean Upper Conservatory - Beta Archimedean (C03)
3. Archimedean Upper Conservatory - Alpha Archimedean (C02)
4. Navarre - Florida - NHS Team A (C17)
5. Boca Raton Community - Boca Raton Team 2 (C07)
6. Everglades - Chompers (C12)

DIVISION B TROPHIES

1. American Heritage Plantation (B02)
2. Archimedean Middle Conservatory (B03)
3. New Springs Schools (B20)

DIVISION C TROPHIES

1. Archimedean Upper Conservatory (C02)
2. Boca Raton Community High School (C06)
3. Everglades High School (C13)