SACHIT MENON

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EDUCATION

Duke University, Durham NC Expected Graduation: May 2020
Angier B. Duke Scholar

Texas Academy of Mathematics and Science (University of North Texas), Denton TX May 2016
Overall GPA: 4.00/4.00

Jasper High School, Plano TX June 2014
Overall GPA: 4.45/4.00 (Rank 5 / 745)

WORK EXPERIENCE

Neuroscience and Biology Lab, University of North Texas November 2014-May 2016
Undergraduate Researcher

- Study relationship between primary cilia and neural disorders
- Potential for development of novel drug treatment for epilepsy
- Derived potential explanation for *kindling* (tendency of seizures to beget seizures)

Selected Achievements:

- 2016 Goldwater Scholar
  - Most prestigious undergraduate scholarship in scientific research
  - Obtained as a high school senior despite normally being open only to undergraduate sophomores and juniors
- $1,000 Patel Foundation Excellence in Biological Research Scholarship
- $3,000 TAMS Summer Research Scholarship
- 3rd Place, Cellular and Molecular Biology, Texas State Science and Engineering Fair
- 2nd Place, Medicine and Health Sciences, Fort Worth Regional Science and Engineering Fair

Forward Tutoring
Tutor Coordinator, Tutor Development Division August 2014-May 2016

- Forward Tutoring: 501(c)3 nonprofit organization that provides free tutoring in exchange for community service
- Led largest group of tutors in organization's history (200+)

Alan G. MacDiarmid Institute, University of Texas at Dallas August 2013-June 2014
Affiliate Research Scientist

- Created a thin, flexible, lightweight, transparent loudspeaker using carbon nanotubes
- Invited to present for the American Association for the Advancement of Science - American Junior Academy of Science Symposium, Chicago, IL

Selected Achievements:

- Co-author of paper to be submitted to *Applied Physics*, "Flexible and Transparent Thermoacoustic Loudspeakers Using Free-Standing Carbon Nanotube Film"
- First Prize (Engineering) and Fourth Grand Prize, Texas Junior Academy of Sciences Symposium, College Station, TX
- Special Recognition for Outstanding Research, American Acoustic Society

Alan G. MacDiarmid Institute, University of Texas at Dallas June 2013-August 2013
NanoExplorer (High School Visiting Scholar)

- Began in-depth research on the possibilities of carbon nanotubes for sound generation

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ACTIVITIES AND LEADERSHIP

TAMS Linguistics Society
Vice President August 2014-May 2016
- Organized ESL program for Denton elementary schools and UNT International Services Office
- Prepared members for North American Computational Linguistics Olympiad

ION (TAMS School Newspaper)
Head Writing Editor August 2014-May 2016
- Assigned story leads and tasks to writing team to generate content for school newspaper

Junior World Affairs Council
Executive Officer, Board Member September 2012-May 2016
- Created a venue for international discussion over the radio with Ukrainians in Crimea during the Crimean Crisis
- Raised >$3000 for charity group "Save the Children"

FTC Robotics Team #7172 "Technical Difficulties"
Engineering Design Lead (10^{th}-12^{th}) September 2013-June 2016
- Drove team brainstorming, design sessions for robot engineering
- Average Highest Scoring Team at FTC World Championships
- Contracted by Dallas ISD to organize practice robotics competitions
- Coca-Cola/3D Systems 2014 EKOCYCLE Cube 3D Printer Program Winner
- International Champion, FIRST Minibots Challenge

Science Olympiad
School Team Member September 2014-May 2016
- 3rd Place Cell Biology – Texas State Science Olympiad

Aspire Exposition
Regular Presenter August 2014-May 2016
- Visited a middle school and an elementary school weekly to give science lectures to children
- Presented various experiments to encourage the idea that "science is cool"
- Inspired children to pursue education

Learning About Science And Engineering Research (LASER) Club
Vice-President September 2012-June 2014
- Encouraged and supported high school research; registered students in competitions

Kumon Math and Reading Learning Center
Tutor (6^{th}-10^{th}) September 2009-August 2014
- Taught children enrolled in the Kumon program for development of math and reading skills
- Included subjects ranging from basic addition to differential equations (in the math program) and from basic English to analysis of works of Shakespeare (in the reading program)

SELECTED AWARDS AND ACCOMPLISHMENTS

2016 USA National Brain Bee Qualifier
2014, 2015 Siemens Competition Semifinalist
2014 Summer Study Abroad Scholarship (French Embassy/American Association of Teachers of French)

SKILLS AND INTERESTS

Languages (Proficient in French, Japanese)
Violin
Iaido (Japanese Sword Art "Moving Zen")