

**NICKASH SIVAKUMAR**

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**EDUCATION**

**VCU School of Medicine, Richmond, VA (2021 - present)**  
M.D. (Doctor of Medicine)

**The College of William and Mary, Williamsburg, VA (2017 - 2021)**  
Bachelor of Science | Major: Neuroscience | Minor: Psychology  
**Honors:** Dean's List, Summa Cum Laude

**Thomas Jefferson High School for Science and Technology, Alexandria, VA (August 2013 - June 2017)**

**RESEARCH**

**Student Research Assistant (May 2018 - May 2020)**

**Professor Joshua Burk, Department of Psychological Sciences, The College of William and Mary, Williamsburg, VA**

- Researched on attention and decision making in rats after lesioning of the cholinergic system of the basal forebrain and external stimulation of the orexinergic system in recovery
- Involved in handling/surgery and sectioning using Microtome

**Research Assistant (May 2016 - June 2018)**

**Dr. Subroto B. Chatterjee, Director, Sphingolipid Signaling and Vascular Biology Laboratory and Professor of Pediatrics, the Johns Hopkins University School of Medicine, Baltimore, MD**

- Researched on glycosphingolipid (glucosylceramide) synthesis in ApoE knockout mice and its role in Atherosclerotic Plaques and resulting hair and skin loss
- Performed Elisa and Bradford Assay and illustrated Cellular Pathways

**Student Researcher (September 2016 - June 2017)**

**Professor Mark Hannum, Neuroscience Research Lab, Thomas Jefferson High School for Science and Technology (TJHSST), Alexandria, VA**

- Researched on using an EEG to isolate brainwave spikes from eye-blinks against the background noise of the brain
- Utilized a combination of MATLAB and Python to change isolated brainwaves into distinct signals to control rudimentary functions of a computer mouse

**LEADERSHIP/  
VOLUNTEERING**

**Hospital Volunteer, Riverside Doctors Hospital, Williamsburg, VA (September 2018 - March 2020)**

- Assisted patients in Emergency Department and Post Anesthetic Care Unit
- Managed material inventory and perform clerical tasks in the Medical Surgical Unit

**Teaching Assistant, The College of William and Mary, Williamsburg, VA (January 2020 - March 2020)**

- Prepared and graded assignments and in-class activities for Cellular Biology
- Aided in class activities, discussions and lecture class as necessary

**Pre-Med Mentor (August 2019 - May 2021)**

- Organized and conducted meetings for pre-med students to planning for the future in terms of research opportunities, volunteering, and class scheduling
- Tutored students in pre-med core subject areas

**Global Health Volunteer, Foundation for International Medical Relief of Children (FIMRC), Kodaikanal, India (July 2019)**

- Participated in both clinical and public health education aspects of operations on-site, activities ranging from check-ups in the crèches to shadowing and assisting in basic orthopedic and primary care procedures in local hospitals
- Created structured long-term health plans in areas such as Maternity health, vaccinations, basic hygiene, and checkup schedules to provide an incentive for the population to maintain good health for themselves and their children

**Regional Director, GIVE, Sterling, VA (September 2015 - June 2017)**

- Managed schedule for tutors and students
- Organized enrichment activities, managed communications and outreach

**MEDICAL  
SHADOWING**

**Children's National Hospital, Washington, DC (Summer 2018 - 80 hours)**

- Dr. Mathula Thangarajh (Pediatric Neurology/General Child Neurology)
- Patient Appointments with focus on peripheral nervous system disorders (Muscular Dystrophy, Myasthenia Graves)

**Kovai Medical Center and Hospital, Tamil Nadu, India (Summer 2019 - 80 hours)**

- Dr. Senthil Kumar (General Neurology)
- Emergency room and Neurology ICU

**PUBLICATIONS**

- Bedja, D., Yan, W., Lad, V., Iocco, D., Sivakumar, N., Bandaru, V. V. R., & Chatterjee, S. (2018). Inhibition of glycosphingolipid synthesis reverses skin inflammation and hair loss in ApoE<sup>-/-</sup> mice fed western diet. *Scientific Reports*, 8(1). <https://doi.org/10.1038/s41598-018-28663-9>

**CERTIFICATIONS**

- ExCPT Certified Pharmacy Technician

**EXTRA  
CURRICULAR**

**Tutor, Varsity Tutors (June 2016 - Current)**

- SAT, ACT, Biology, Algebra and Geometry

**Intramural Ultimate Frisbee Team, The College of William and Mary, VA (September 2017 - Current)**

**COMPUTER  
SKILLS**

- Statistical analysis using Stata
- Pathology Slide Viewing using Aperio
- Data analysis using MS Excel and R

**SPOKEN  
LANGUAGES**

- English, Tamil and Spanish