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Education

- Vanderbilt University (Nashville, TN)** May 2018
Bachelor of Engineering, Major: Biomedical Engineering, Minor: Neuroscience
GPA: 3.85/4.00 MCAT: 518/528 (97th percentile)
- Thomas Jefferson High School for Science and Technology (Alexandria, VA)** June 2014
Advanced Studies Diploma
GPA: 4.20/4.00 SAT: 2330/2400

Work Experience

- Laboratories for Innovation in Global Health Technologies (Nashville, TN)** September 2015 - Present
Research Fellow, Wright Lab/Haselton Lab
- Developed and optimized a method to use an iPhone camera and a MATLAB script as a more effective and low-cost method for detecting malaria in low-resource environments
 - Developed a method to encode barcodes into low-resource malaria diagnostic tests for automated reading
- Vanderbilt University Office of Housing and Residential Education (Nashville, TN)** August 2016 – May 2017
Resident Advisor, Kissam College Halls
- Created educational and community-building programming for residents of the floor and of the larger College Halls community
 - Collaborated with campus partners and housing staff to provide resources and support to 30 residents
- National Cancer Institute at National Institutes of Health (Bethesda, MD)** May 2015 – July 2015
Research Assistant, Pommier Lab
- Analyzed large-scale biological databases to determine a genetic basis for cancer drug efficacy
 - Collaborated with post-doctoral researchers, principle investigators, and clinical researchers

Publications

- Scherr, T. F., **Gupta, S.**, Wright, D. W., & Haselton, F. R. (2017). An embedded barcode for “connected” malaria rapid diagnostic tests. *Lab on a Chip*, 17(7), 1314–1322. <https://doi.org/10.1039/C6LC01580H>
- Scherr, T. F., **Gupta, S.**, Wright, D. W., & Haselton, F. R. (2016). Mobile phone imaging and cloud-based analysis for standardized malaria detection and reporting. *Scientific Reports*, 6, 28645. Retrieved from <http://dx.doi.org/10.1038/srep28645>

Campus Involvement

- VUcept (Peer Mentorship Organization)** April 2015 - Present
Student VUceptor (April 2015- Present), Public Relations Co-Chair (November 2015-November 2016)
- Mentored 18 first-year students on the transition to college and being active campus citizens
 - Collaborated with the Office of the Dean of the Ingram Commons and campus partners to recruit peer mentors and share their stories to promote resiliency, diversity, and inclusion on campus
- Vanderbilt Student Volunteers for Science (VSVS)** September 2014 - Present
Co-President
- Inspired local primary and middle school students to pursue STEM careers through weekly science lessons
 - Trained and organized 150 teams to teach science lessons to 3500 students in 125 classrooms in the Greater Nashville Area
 - Designed and implemented a set of computer science lessons targeted at middle-school students
- BhangraDores (Competitive Dance Team)** September 2014 - Present
Senior Advisor, Captain
- Collaborated with multicultural and performing arts campus groups to create and support educational programming
 - Revitalized the choreography and routine development to win two 1st place prizes, and one 2nd place prize under captaincy.
- Vanderbilt Institute for Global Health – Student Advisory Council** April 2015 - Present
Co-Chair
- Developed a campus-wide global health publication in collaboration with the medical school global health organization
 - Oversaw the annual Global Health Case Competition
- Vanderbilt Alternative Spring Break** January 2016 - Present
Site Leader
- Collaborated with 6 Nashville service organizations to develop a week-long service program for addressing homelessness and poverty
 - Mediated discussions on homelessness and its underlying issues within a group of 12 service participants
- Vanderbilt Undergraduate Honor Council** February 2016 - Present
Elected Member
- Mediated discussions about the honor code and honor code violations
 - Consulted with Honor Council members and the Office of Student Accountability to determine consequences for honor code violations

Honors and Awards

- Laboratories for Innovation in Global Health Undergraduate Scholar** May 2016
Vanderbilt University
- Russell C. Chambers Scholarship** June 2015
Vanderbilt University School of Engineering