

Adithya Sivakumar

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EDUCATION

Vanderbilt University, Nashville, TN

May 2018

Bachelor of Engineering, Biomedical Engineering; Bachelor of Arts: Medicine, Health, and Society
Cumulative GPA: 3.63/4.00
Dean's List - Fall 2014, Spring 2015, Fall 2016, Spring 2017

RESEARCH AND WORK EXPERIENCE

Daniels and Mahadevan-Jansen Lab, Nashville, TN

Undergraduate Research Assistant, (June 2017-Present), 40 hours per week (Summer), 8 hours per week (Semester)

- Determine whether Raman Spectroscopy is an adept tool to distinguish between choroidal nevi and melanomas in both tissue specimens and living beings.
- Analyze the efficacy of Raman Spectroscopy of identifying Eosinophilic Esophagitis in both tissue specimens and pediatric patients undergoing endoscopies.

Metzl Lab, Nashville, TN

Undergraduate Research Assistant, (September 2016-Present), Independent Study

- Interpret health implications of legislative decisions made by the current state government of Kansas by creating timelines of budget cuts, specifically in their relation to health, as well as conducting analysis of the health outcomes of different populations in the state after the cuts.
- Collect and interpret data on the impact of gun violence in the United States.

Vanderbilt University Medical Center Office of Federal Relations, Washington, D.C.

Health Policy Intern, (June 2016-July 2016), 40 hours per week

- Assisted in writing summaries of Congressional Briefings and compiling information on Congressional Bills important to Vanderbilt University Medical Center.
- Collected data and other dossiers about legislation and policy that would be useful for the University Medical Center in its interactions with the federal government and various other stakeholders.

Haselton Lab, Nashville, TN

Undergraduate Research Assistant, (January 2015-April 2016), 8 hours per week

- Created synthetic sputum that would be used for testing in later experiments, specifically related to biomedical technologies that would be used to diagnose individuals with infectious diseases.
- Tested the efficacy of a portable back massager as a vortexer, potentially allowing for quicker diagnostic tests for infectious diseases in low-resource environments.

LEADERSHIP AND OTHER EXTRACURRICULAR EXPERIENCES

VUcept Peer Mentoring Organization

Student VUceptor, (Fall 2015, Fall 2016); Public Relations Co-Chair (Fall 2016-Present)

- Publicize the mission of the VUcept organization and lead recruitment efforts to the wider campus as Public Relations Co-chair.
- Led the integration and orientation of seventeen first-years into Vanderbilt University as Student VUceptor along with a faculty partner, acclimating the students to the cultural and academic environments they may encounter.

South Asian Cultural Exchange

Technical Chair, (Spring 2015-Spring 2016); Vice President of Internal Affairs, (Spring 2016-Spring 2017); Senior Advisor (Spring 2017-Present)

- Provide guidance and assistance as Senior Advisor to executive board to plan events and promote community within the organization.
- Served as co-chair of The Diwali Showcase, a show consisting of performances that encompass and celebrate the various cultures within South Asia, and coordinated logistics for over one thousand attendees and three hundred performers in order to carry out the show.
- Collaborated with other executive board members to plan and carry out various cultural events, including those promoting education and community to the organization's general members and the university's student body.
- Provided technical assistance at various events, including making PowerPoints, videos, and playlists as Technical Chair.

Global VU

Staff Writer, (Fall 2015-Present)

- Contribute print and online articles to Vanderbilt's international affairs journal surrounding topics such as politics in Colombia, the recent influx of populism in the world, and divisions in Cyprus.

Vanderbilt University Medical Center and Children's Hospital at Vanderbilt

Shadow, (February 2017-April 2017); (July 2017); (October 2017-Present)

- Shadowed Dr. LeAnn Stokes, an interventional radiologist, to learn more about the profession and technologies surrounding the surgical procedures performed.
- Observed Dr. Joshua Grahe, an emergency room physician, in his interactions with children and families during times of acute injury and illness.
- Shadow Dr. Ritu Banerjee, an infectious disease specialist, in her consultations with children who may face the prospect of fighting or preventing a transmissible illness.

Tennessee Justice for our Neighbors

Undergraduate Legal Intern, (September 2017-Present)

- Develop routes to match volunteers with clients needing immigration services.
- Provide administrative assistance to organization in its work with immigrants and refugees in need of legal services.

SERVICE EXPERIENCE

Alternative Spring Break

Participant, (Spring 2015); Site Leader, (Fall 2015-Spring 2016, Fall 2016-Spring 2017, Fall 2017-Present)

- Coordinated service projects as site leader over a week of service concerning topics including the reintegration of prisoners into society, homelessness, and addiction in South Bend, IN during Spring of 2017, as well as veterans' healthcare and issues affecting their well-being in Richmond, VA during Spring of 2016.
- Planned weekly, one-hour educational pre-site meetings with co-site leader for group of 8-11 participants to educate and prepare the individuals for the service they would be conducting.
- Participated in service activities with recent refugees and immigrants to the United States, such as assistance with job applications and English language learning, in Philadelphia during Spring of 2015.

Shade Tree Clinic

Patient Tracking Volunteer, (June-July 2017); Front Desk Assistant, (September 2017-Present)

- Assessed amount of physician-patient interaction in patient's total stay at free health clinic run by Vanderbilt medical students and physicians as Patient Tracking Volunteer.
- Engage in patient intake and appointment scheduling at the clinic as Front Desk Assistant.

PUBLICATIONS

- Scherr, T.F., Ryskoski, H.B., Sivakumar, A., Ricks, K. M., Adams, N.M., Wright, D.W., Haselton, F. R. (2016) "A handheld orbital mixer for processing viscous samples in low resource settings." *Analytical Methods* (8): 7347-7353.