

Aditya Sood

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EDUCATION

EMORY UNIVERSITY (Atlanta, GA) 2019-2023
MD Candidate

- Harris Family Medical Scholar

UNIVERSITY OF GEORGIA (Athens, GA) 2015-2019
B.S. Biology, B.A. Sociology

- GPA: 3.86/4.00 MCAT: 520 (131/130/127/132), 98th percentile
- Foundation Fellow: University of Georgia's premier Foundation Fellowship- Among top 21 students out of approximately 1,000 applicants (2.1%) and 24,000 freshman applications (0.1%)
- Stamps Scholar: 1 of 5 Fellows selected nationwide as the Stamps Scholar

UNIVERSITY OF OXFORD (Oxford, United Kingdom) June 2016

- Studied Biomedical Ethics under Dr. David Birks of Kellogg College

Languages: English (Native), Hindi (Native), Chinese (basics),

Programming languages: Java, R, HTML, CSS

PUBLICATIONS

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1. Gangal A., **Sood A.**, Sangari A., Stoff B.K. (2022), "A House Divided: Considerations for Implementation of a Formalized Open House Period in the Dermatology Residency Match", Journal of the American Academy of Dermatology (under review)
 2. Sangari A., **Sood A.**, Horinek M; Sangari A, Sood N., Siddiqui S., Soni A. (2022), "Identifying the Privacy Risks of Semi-Anonymous Online Medical Forums: Content Analysis", JMIR Infodemiology. (Under review)
 3. **Sood A.**, Sangari A., Stoff B.K. (2022), "Recommending expensive treatments: An ethical analysis", Journal of the American Academy of Dermatology. S0190-9622(22)02401-X. doi:10.1016/j.jaad.2022.07.030
 4. Sangari A, **Sood A.**, Stoff B.K. (2022), "What To Do When You're Curbsided By Your Patient's Plus One", Journal of the American Academy of Dermatology. 2022;S0190-9622(22)02556-7. doi:10.1016/j.jaad.2022.08.032
 5. **Sood A.**, Sangari A., Stoff B.K. (2022), "Ethical Considerations of Genetic Expression Profiling for Melanoma Prognosis", Journal of the American Academy of Dermatology (under review)
 6. **Sood A.**, Sangari A., and Stoff B.K. (2022), "Navigating internet-based misinformation with patients in clinic", Journal of the American Academy of Dermatology. 2022;S0190-9622(22)00528-X. doi:10.1016/j.jaad.2022.03.038
 7. **Sood A.**, Stoff B.K., and Yeung H. (2022), "Challenges in caring for transgender populations: A primer for the dermatopathologist", Journal of Cutaneous Pathology; (under review).
 8. **Sood A.**, Brahmabhatt M., Flowers N., Yeung H., Vong G., and Stoff B. (2021), "Challenging ethical scenarios reported by American Society of Dermatopathology members: a qualitative analysis", Journal of Cutaneous Pathology 2021;10.1111/cup.14137. doi:10.1111/cup.14137
 9. **Sood A.**, Sangari A., Chen J., and Stoff B. (2021), "The ethics of using biased Artificial Intelligence programs in clinic", Journal of the American Academy of Dermatology, doi:10.1016/j.jaad.2021.11.031

PUBLISHED ABSTRACTS

10. Sangari A., **Sood A.**, et. al. *Predicting Intubation and Ventilation Needs Upon Admission for Intensive Care Patients with Congestive Heart Failure* (2021). Circulation.
doi:10.1161/circ.144.suppl_1.14410
11. Sangari A., Sood N., **Sood A.**, et. al. *Improving Patient Selection in International Pediatric ECPR Cohorts* (November 2021). Annals of Emergency Medicine
12. **Sood A.**, Barrett D., Cheeley T. (2022), “Oil Paint Necrotizing Hand Dermatitis”, Journal of Investigative Dermatology

POSTER PRESENTATIONS (National/ Regional Conferences)

13. Sood A. and Sood A. (2022) “COVID-19’s Effect on Digitization of Future Work: Complementary Role of Non-Pharmaceutical Interventions” Special Session on “The Influence of Digital Economy on Regional Economy Development” Invited talk by Liaoning University.
14. **Sood A.**, Dieudonne R., Chopra D., Westerkam L., Siira M., Sayed C., Lev-Tov H., Orenstein L.V., 2022 “Examining Food Insecurity in Patients with Hidradenitis Suppurativa”. Symposium on Hidradenitis Suppurativa Advances.
15. Echuri H., **Sood A.**, Dieudonne R., Siira M., Baranowski M., Orenstein, L.V. (2022) “Prevalence of hyponatremia in a cohort of patients with hidradenitis suppurativa”. Symposium on Hidradenitis Suppurativa Advances.
16. Farooq P., Mehra, N. and **Sood A.** (2021) “ Do increased vaccination sites per person lead to increased vaccination rates - a study of Alabama”.
 - AMA Research Challenge Semifinalist
17. **Sood A.** and Sangari A. (2021) “Bias Prevention in Global Adoption of Artificial Intelligence Based Health Management Systems”, UCF Global Health Conference
 - a. Winner of best poster in category
18. Sangari A. and **Sood A.**, “Establishing Global Guidelines for Integrating Artificial Intelligence Systems into Clinical Care” UCF Global Health Conference
19. **Sood A.** and Anand D. (2021), “ALK-Positive Spitz Tumor”, Zola-Cooper Dermatopathologic Conference
20. **Sood A.** and Anand D. (2021), “Aggressive Digital Papillary Adenocarcinoma”, Zola-Cooper Dermatopathologic Conference
21. Sood A. and **Sood A.** (2020) “COVID-19’s Effect on Digitization of Future Work: A Multinational Diffusion Study using Functional Data Analysis” Special Session on “COVID-19’s Effect on Digitization of Future Work Transformation” Invited talk by Department of Labor, US Government and APEC Conference on Labor Market Impact and Social Protection in the COVID-19 Era.
22. Sangari A., Sangari A., **Sood A.**, and Sood N. (2020) “Evaluating the Extent to which Posted Personally Identifying Information Jeopardizes the Privacy of Users of Breastcancer.org”, Emory Global Perioperative Alliance Virtual Symposium
23. **Sood A.** and Anand D. (2019), “Atypical Lymphocytic Lobular Panniculitis”, American Society of Dermatopathology
24. **Sood A.** and Anand D. (2019), “Lamotrigine-Induced Cutaneous CD 30+ Anaplastic Large Cell Lymphoma”, American Society of Dermatopathology
25. **Sood A.** and Anand D. (2019), “Degos Disease”, American Society of Dermatopathology
26. **Sood A.** et al. (2018), “Effect of Metformin on Urine Concentrating Ability in Sick Cell Mice,” American Society of Nephrology
27. **Sood A.** and Anand D. (2019), “Atypical Lymphocytic Lobular Panniculitis”, Zola Cooper Dermatopathologic Conference

28. **Sood A.** and Anand D. (2019), “Lamotrigine-Induced Cutaneous CD 30+ Anaplastic Large Cell Lymphoma”, Zola Cooper Dermatopathologic Conference
29. **Sood A.** and Anand D. (2019), “Degos Disease”, Zola Cooper Dermatopathologic Conference
30. **Sood A.** et al. (2018), “Effect of Metformin on Urine Concentrating Ability in Sick Cell Mice,” Kidney, Urologic, and Hematologic Diseases Summer Undergraduate Research Symposium at Harvard University
31. **Sood A.** (2017), “Exploring Group Configuration and its Effect On Group Performance,” Undergraduate Research Symposium, University of Georgia
32. **Sood A.** and Anand D. (2017), “Ectopic Extramammary Paget’s Disease Presenting on the Face- An Extraordinary Case Presentation & Discussion”, Zola Cooper Dermatopathologic Conference
33. **Sood A.** and Anand D. (2017), “The lesser known CD8+ Cutaneous T-cell Lymphomas- What are they & why should we know about them?”, Zola Cooper Dermatopathologic Conference
34. **Sood A.** and Daniel T. (2017), “Oligodendrocyte Precursor Cell Specification: Convergence of Shh, Tgf- β & Notch Signaling,” Regenerative Bioscience Undergraduate Symposium, University of Georgia
35. **Sood A.** and Anand D. (2016) “Diffuse dermal angiomatosis/Reactive angioendotheliomatosis- What is this, and why should I know about it?”, Zola Cooper Dermatopathologic Conference
36. **Sood A.** and Anand D. (2016) “Blastic Plasmacytoid Dendritic Cell Neoplasm- An under recognized but deadly tumor”, Zola Cooper Dermatopathologic Conference
37. **Sood A.**, Calloway C., and Daniel T. (2016), “Oligodendrocyte Precursor Cell Specification: Convergence of Shh, Tgf- β & Notch Signaling,” Regenerative Bioscience Undergraduate Symposium, University of Georgia.

PROFESSIONAL AND TEACHING EXPERIENCE

Peer Learning Assistant in Intro to Biochemistry - UGA Jan. 2018 - May 2018

- Attended weekly pedagogy class and discussed case study outlines, test results weekly
- Conducted study sessions (4 credit hour course for 48 Students) to explain metabolic pathways and other biological concepts

Stepping Stone Volunteer to teach English in Shanghai; 40 students May 2017 – Jun. 2017

- Created English language lessons to students of age 6-9
- Communication required intermediate Mandarin skills
- Each class lasted 1.5 hours. Taught 2 classes a week for 4 weeks

University of Pennsylvania Health System May 2013 – Jun. 2013

Marketing Intern, Philadelphia, PA

- Authored market research report on the relationship between patient reviews of physicians and their referrals to doctors
- Created HTML Scrappers to create patient profile for use in UPHS medical advertising systems

Giving Point Institute, Atlanta, GA 2014-2015

Institute Leader

- Help students create 9 comprehensive community service projects aimed at making a social impact
- Workshops covering Business Planning, Budgeting and Finance, Fundraising & Investor Relations, and Marketing

COMMUNITY SERVICE / SOCIAL ACTIVISM

Feed the Frontlines Georgia (FeedTheFrontlinesga.org), Georgia, USA

Founder & Executive Director

Apr. 2020- Sep. 2020

Founded 501(c)(3) nonprofit aimed at rapid COVID support to hospitals in the state of Georgia, with a focus on hospitals that provide care for underserved populations.

- Raised \$90,000 via fundraisers, grants, and grassroots fundraising
- Coordinated delivery of 6,600 fresh & healthy meal deliveries from struggling local, family-owned restaurants
- Lead an 83-member team across 21 cities to coordinate, fundraise, and deliver meals to homeless shelters and healthcare professionals at 30 hospitals across the state

Working Together For Change (WorkingTogetherForChange.com), Alpharetta, GA

Founder & Executive Director

Dec. 2013-Present

Founded national 501(c)(3) nonprofit aimed at ending homelessness. Multiple chapters in CA and GA.

We have 3 pillars which work together to generate awareness, provide support and education for and about the homeless population.

- **Medical Initiatives:** Organized medical camps to provide medical care for thousands of homeless people through 13+ medical camps from 2014-2018. Free basic health checkups such as vision testing, BMI, blood pressure, Hepatitis C risk assessments and diabetes tests; Partnered with the Ironman organization, Morehouse School of Medicine, GA PCOM and local volunteer doctors and medical students; Organized talks by doctors to provide easily accessible clinical information for the local homeless.
- **Social Entrepreneurship:** Raised over \$10,000 for scholarships for underprivileged youth and provide skills-based training to homeless veterans; Partnered with Boys and Girls Club of Puerto Rico to mentor children. Built houses for 30 homeless people in Tijuana, Mexico; Run social media marketing campaigns for other nonprofits.
- **Immersion:** Create issue awareness (chapters, conferences, presentations; partnerships); Created and implemented programming that resulted in the distribution of 200+ bags to homeless youth, organized numerous supply drives to collect over 500 hygiene kits for homeless individuals, Collaborated to connect 4 universities to create a homelessness awareness program
Also see Facebook.com/workingtogetherforchange for more information

HackStart (hackstart.co), Alpharetta, GA

Cofounder

May 2015 - 2019

HackStart is an organization aimed at increasing teen participation in computer science and entrepreneurship by increasing accessibility to and hosting events such as hackathons.

- Helped fundraise \$1,900 in cash and \$3,000 in kind during the month of June
- Received sponsorships from GA Tech, Bitpay, Praxis, Chickfila, Zaxby's, ATDC, and Tech Village
- Recruited 30 students to compete in 7 teams to win \$600 in cash prizes

United Way Regional Commission of Homelessness (RCOH), Atlanta, GA

Board Member/Advisor

Jan. 2014- Nov. 2016

- Help homeless veterans get employed by teaching them marketable skills to reintegrate into workforce

LEADERSHIP POSITIONS AT EMORY UNIVERSITY SCHOOL OF MEDICINE

- Senator, Medical School Senate 2022 - Present
- Member, Street Medicine Clinic 2022 - Present
- External Program Coordinator, COVID Response Team 2020 - 2021
- Undergraduate Student Mentor, Emory Pre-Medical Association 2019 - 2020

LEADERSHIP POSITIONS AT THE UNIVERSITY OF GEORGIA

- Co-Chair, Biochemistry Undergraduate Society 2016 - 2019
- Monthly research talks, coffee hours, mentorship for UGA's 500+ biochemistry molecular biology majors
 - Organized symposiums in 2016, 2017 and 2018 with ~30 sessions; 100+ presentations
 - Best Poster, Best Paper, and Best Presentation competitions
- Member, Honors Program Student Council 2016 - 2019
- Selected out of 300+ applicants to enhance honors students' experiences at UGA
 - Hosted multiple community building, mentorship, and advising event including an annual dance
- Chair, PAL Mentoring Program 2017 - 2019
- Match ~100 freshmen/sophomores with 100 juniors/seniors each semester for mentorship throughout the semester
- President, HackUGA 2016 - 2017
- Oversaw fundraising and logistics for UGA hackathons from 2016-2017

AWARDS AND HONORS

- 2019-2023 Harris Family Scholar
- 2016 TEDx Talk (Working Together for Change)
- 2016 Gold Presidential Volunteer Award (3x)
- 2015 Coca-Cola Scholar (One of 150 selected out of 107,000 applicants)
- 2015 20 Under 20 Georgia Leaders for work on social activism
- 2015 National Merit Finalist- Merit Scholarship Competition
- 2015 Fulton County STAR Scholar
- 2014 Youth Immigrant Achievement Award Winner, National Immigration Council (Presented by members of Congress for work to end homelessness)

RESEARCH EXPERIENCE

- Center for Research and Innovation in Systems Safety 2021-2022
- Department of Anesthesiology, Vanderbilt University Medical Center
- Examined the responses of participants to simulated ICU alarms delivered through a newly developed multisensory Apple Watch-based alarm system that featured novel auditory icons, haptic feedback, and audiovisual localization
 - Demonstrated that the addition of integrated haptic feedback and audiovisual localization to an existing alarming solution improved response times to alarms and elicited positive user feedback. Manuscript in progress with goal of submission by October.

Medical Ethics

Aug. 2019 – Present

Researcher under Dr. Benjamin K Stoff, Emory Center of Ethics

- Authored 8 publications (6 first author) in Journal of the American Academy of Dermatology and Journal of Cutaneous Pathology on ethical issues in medicine, health care and life science

Hidradenitis Suppurativa Laboratory

2021-2022

Researcher under Dr. Lauren Orenstein, Emory Department of Dermatology

- Used machine learning analysis (least absolute shrinkage and selection operator regression) to generate algorithm to estimate HS severity using laboratory values
- Investigated relationship between HS and food insecurity, and between HS and hyponatremia, and presented findings at the Symposium of HS advances (2 oral presentations)

Qualitative Research Lab

2019-2022

Researcher under Dr. Howa Yeung, Department of Dermatology

- Used MaxQDA qualitative analysis software to conduct analysis on ethical issues facing dermatopathologists, explore sentiment of research requirements in dermatology residencies, and assess state of novel implementation of electronic dermatology consult for primary care facilities.
- Authored 2 publications in Journal of Cutaneous Pathology
- Authored 2 abstracts/presentations submitted to American Academy of Dermatology, Southeastern Consortium for Dermatology

Self-driven research

Aug. 2019 – Present

- Worked in a small team of medical students, without direction of a PI, to conduct a wide range of analyses in a diverse set of topics:
 - Quantified the privacy risks of a semi-anonymous online medical forum, www.breastcancer.org (1 poster, 1 submitted manuscript)
 - Reviewed criteria for patient selection in ECPR cohorts (1 published abstract in Annals of Emergency Medicine)
 - Developed a machine learning model to assess intubation and ventilation upon admission (1 published abstract in Circulation)
 - Analyzed the various challenges faced by global adoption of artificial intelligence in clinical care (2 posters, Best Poster in Category winner at UCF Global Health Conference)
- Self-taught programming languages (R, python) and statistical techniques (neural network models, entropy estimates, multivariate logistic regression analysis)

Renal Division of Emory School of Medicine

Jun. 2018 – Aug. 2018

SURE Fellow under Dr. Jeff Sands, President of American Physiological Society

- ≠ Studied effect of Metformin on urine concentrating ability of sickle cell mice
- ≠ Learned/performed mouse maintenance/handling/sac'ing, western blotting, osmolarity measurements, electrolyte measurements
- ≠ Presented findings at American Society of Nephrology's premiere conference at Kidney Week 2018

Biochemistry Department – Vertically Integrated Projects, UGA Jan. 2018 – Jan. 2019
Vertically Integrated Projects Fellow at the Social Psychology of Undergraduate Research Lab

- Examined the generalizability of effects of classroom group configuration on academic performance and satisfaction under Dr. Dolan
- Using R and SPSS for data analysis; utilized Qualtrics to accumulate and compile data

SkinPath Solutions, Smyrna, Georgia 2014 - 2019
Intern/Research Assistant

- Co-authored multiple case studies on unusual cases, such as multiple dermatofibromas in patients with Systemic Lupus Erythematosus; presented at national conferences
- Examined skin biopsies using immunofluorescent microscopy; learned histochemical staining techniques
- Wrote up abstracts

Regenerative Bioscience Center, UGA Dec. 2015 - May 2017
Undergraduate Research Fellow under Dr. Steven Stice (Director of Regenerative Bioscience Center)

- Performed immunostaining, cell culturing and maintenance, quantitative PCR, and electron microscopy imaging to examine the soluble glial switch between motor neurons & oligodendrocyte precursor cells causing temporal change in potency

Children's Healthcare of Atlanta, Atlanta Dec. 2015 – Aug. 2017
Research Assistant

- Worked with pulmonary pediatrician to write literature reviews regarding interactions between pediatric esophageal diseases and GERD; Analyzed immunohistochemistry stains

Georgia State University Neuroplasticity Lab, Atlanta Feb. 2014 – Aug. 2015
Research Intern

- Ran clinical trial on 20 patients to investigate the effect of transcranial stimulation on motor learning skills
 - Provide data analysis of patient outcomes using SPSS
-