JESUTOFUNMI A. OMIYE

EMAIL: TOMIYE@STANFORD.EDU

EDUCATION

Stanford University, Stanford, CA, USA

Sep 2021 – Jun 2023

MS in Health Policy (on Artificial Intelligence specialization track)

- Courses included: Data-driven medicine, Outcomes analysis, Deep learning for computer vision, Modern applied statistical learning
- HAI-Google Grant, 2023 (Awarded \$15,000 for research on AI for skin cancer detection), Threshold Venture Fellow (1 of only 12 students at Stanford), University Student Health Committee

University of Ibadan, Ibadan, Nigeria

MB; BS in Medicine and Surgery (M.D. equivalent)

Jan 2013 – Nov 2019

Federal Government of Nigeria Scholar, Total Scholar, New Venture Fund \$50,000 grant, UIMSA Outstanding Personality award

RESEARCH EXPERIENCE

Postdoctoral Scholar, Depts. of Dermatology/Biomedical Data Science, Stanford University, Stanford, CA, USA Co-advised by Drs Lisa Zaba and Roxana Daneshjou

Aug 2023 – Pres

- Building AI models to identify skin diseases, while evaluating the potential biases of language models
- Designing automated tools to differentiate benign from malignant melanocytic lesions in confocal microscopy images
- Collaborating on policy papers to promote inclusive AI implementation
- Original papers in Nature Digital Medicine and under revision in Nature Medicine; Media features in the Washington Post and AP

Research Assistant, Translational AI in Dermatology Group, Stanford University, Stanford, CA, USA

Jul 2022 – Jul 2023

- Co-led the development of AI/analytics infrastructure and evaluated AI models for skin diagnosis
- Developed and refined AI models for early detection, and diagnosis of common skin conditions, leveraging carefully curated dermatological datasets
- Contributed to collaborative research projects, culminating in manuscripts and presentations showcasing the potential of AI to increase access and improve the quality of healthcare

Research Assistant, Ross Lab, Stanford University School of Medicine, Stanford, CA, USA

Jul 2021 – Jul 2023

- Developed clinical models to bridge the gap between the design and implementation of personalized medicine
- Built computer vision and statistical models on ~4.5K records using electronic health records, genetics, and imaging data to predict outcomes of patients with peripheral artery disease
- Established an industry partnership with an AI company and co-authored Wiley book chapter on AI in Surgery

Graduate Researcher, Stanford Centre for Biomedical Informatics Research, Stanford, CA, USA

Jul 2020 – May 2021

- Mentored 4 students and analyzed publicly available Covid-19 data to evaluate the impact of reopening orders on Covid-19 hospitalizations in all 50 states in the US
- Co-authored 3 peer review articles across AI in healthcare and population health, and featured in Stanford Medicine 2021 report
- Delivered an oral presentation of the paper at the American Medical Informatics Association (AMIA) 2021 Summit

PROFESSIONAL EXPERIENCE

Summer Associate, Valia Ventures, San Francisco, CA, USA

Jul 2022 – Apr 2023

- Sourced multiple startups for investment in the healthcare, AI/ML, and deep tech sectors
- Performed due diligence, developed investment memos, and advised portfolio companies
- Investments include Enter Health (Series A), Monogram Orthopedics (Series A)

Senior House Physician, St. Nicholas Hospital, Lagos, Nigeria

Jan 2020 – Jan 2021

- Managed over 750 patients in the medical, obstetrics & gynecology, pediatrics, and surgical wards
- Assisted in about 35 operative procedures including vascular surgeries, mastectomies, urological, and general surgical procedures
- Conducted 2 research projects, monthly clinical audits, and data-backed insights on COVID-19 in Africa with 3 press features

Sub-Intern, Neurosurgery, Northwestern Medicine, Chicago, IL, USA

Sep - Oct 2018

- Participated in the surgical & multi-disciplinary management of neurosurgical patients including complex operative procedures like tumor excisions, spinal, and deep brain stimulation
- Conducted capstone project on recurrent spinal tumor that was graded 100%
- Awarded highest marks on overall assessment criteria that included ethics, communication, problem-solving approach, and teamwork

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Chairperson, 32nd African Medical Students' Associations General Assembly, Ibadan, Nigeria

Sep 2017 – Aug 2019

- Conceived and led the strategic vision and organization of a successful pan-African conference on Repositioning Healthcare in Africa
 for Sustainable Development which brought 600 students and 30 speakers from 13 countries, in partnership with Johnson & Johnson,
 Bill & Melinda Gates Foundation, and WHO amongst others (http://famsaga2018.com/)
- Raised and managed funds of \$80,000 for project execution
- Received an official commendation from the WHO-Africa Director

LEADERSHIP EXPERIENCE

Co-lead, Finance & Sponsorships | Blockchain, Stanford Africa Business Forum, Stanford, CA, USA

Dec 2021 – Apr 2022

- Spearheaded the efforts of a 6 person team to raise and co-manage a budget of \$85,000 for this event
- Coordinated the recruitment of a diverse set of speakers for the conference's first ever blockchain panel

Co-founder & Co-chair, The Ganglion Initiative, Nigeria

May 2017 - Present

- Co-developed the blueprint for a flagship synapse project that involves coordinated career, entrepreneurship, leadership, and opportunities sessions delivered to high school students across Nigeria. (https://theganglioninitiative.org/)
- Mobilized a team of 100 volunteers and raised ~\$5,000 to deliver training sessions to 8,000 students across Nigeria

President | Board Secretary, The ACE5 Initiative, University of Ibadan, Nigeria

Nov 2016 - Present

- Managed monthly orphanage visits and facilitated an annual Spelling Bee to provide scholarships to orphaned children
- Developed a new fund-raising model for the initiative by engaging media tools and partnering with the State Governor and local firms.
- Expanded beneficiary program with improved model from 60 to 250 children and grew scholarship funding by 30%

SELECTED PUBLICATIONS & PRESENTATIONS

Publications

- Omiye JA, Gui H, et al. Principles and applications of artificial intelligence in dermatology. Frontiers in Medicine, 10 (2023)
- Omiye JA, Lester J, Spichak S, Rotemberg V, Daneshjou R. Beyond the hype: large language models propagate race-based medicine npj Digit. Med. 6, 195 (2023)
- Omiye JA, Ghanzouri I, Lopez I, et al. Clinical use of polygenic risk scores for detection of peripheral artery disease and cardiovascular events. *PLOS One*, 2023 [In review].
- Amal S, Safarnejad L, **Omiye JA**, Ghanzouri I, et al. Use of multi-modal data and machine learning to improve cardiovascular disease care. *Front Cardiovasc Med.* 2022 Apr 27;9:840262. doi: 10.3389/fcvm.2022.840262.

Presentations

- "Generative AI in Healthcare with an African Focus." The 6th West African-Taiwan Health Promotion Conference. Nov 2023 (Invited talk)
- "On the promise of AI in Dermatology." San Francisco Dermatology Society. Aug 2023 (Invited talk)
- "Generative AI and LLMs in Medicine." Stanford Department of Dermatology Grand Rounds. Aug 2023 (Invited talk)
- "The Landscape of Medical Research in Africa." The World Pre-Health Conference. Mar 2021 (Invited talk)

SELECTED COMMUNITY SERVICE & VOLUNTEER WORK

•	Peer Reviewer, The Stanford Journal of Science, Technology, and Society	2022 – Pres
•	Home Program Representative (HPR), Stanford Bioscience Student Association	2021 - 2023
•	Volunteer Student Clinician, Community Health Outreaches	2015 - 2019

SELECTED MEDIA FEATURE

• Akindele, B. (2021). "Living with Long Covid in Lagos." *Mail & Guardian* (https://mg.co.za/africa/2021-02-28-living-with-long-covid-in-lagos/).

SKILLS & HOBBIES

Technical Python, R, PyTorch, Tensorflow, and Stata. **Hobbies** Soccer, Tennis, and Afrobeats