



Chibuikwe Uwakwe

- MD Student, expected graduation Spring 2028
- Ph.D. Student in Bioengineering, admitted Autumn 2025
- MSTP Student
- Tutor, SoM Office of Student Services

Bio

BIO

Chibuikwe Uwakwe is an MD-PhD student in the Medical Scientist Training Program (MSTP) at Stanford University. He is originally from Wilson, North Carolina, and he previously earned an A.B. in Biomedical Engineering from Harvard University, where he conducted materials science research in the Harvard Microrobotics Lab under Prof. Robert Wood. His work in the Bao Group at Stanford focuses on developing wearable bioelectronics for continuous health monitoring and therapeutics.

INSTITUTE AFFILIATIONS

- Chemistry Biology Interface Fellow, Sarafan ChEM-H

EDUCATION AND CERTIFICATIONS

- Bachelor of Arts, Harvard University , Biomedical Engineering (2023)

LINKS

- Personal Website: <https://www.chibuikweuwakwe.com/>
- Google Scholar: <https://scholar.google.com/citations?user=esq1-cQAAAAJ&hl=en>
- ResearchGate: <https://www.researchgate.net/profile/Chibuikwe-Uwakwe>
- LinkedIn: <https://www.linkedin.com/in/chibuikweuwakwe/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Wearable bioelectronics for continuous health monitoring and therapeutics

Publications

PUBLICATIONS

- **Swept-Source OCT Angiography Vascular Metrics as Biomarkers for Renal Function in Patients with Diabetes Mellitus.** *American journal of ophthalmology*
Garg, I., Duich, M., Uwakwe, C., Wai, K. M., Rodriguez, J. M., Lu, E. S., Cui, Y., Le, R., Katz, R., Lains, I., Vingopoulos, F., Moon, J. Y., Zhu, et al
2026
- **Longitudinal wearable sensor data enhance precision of Long COVID detection.** *PLOS digital health*
Uwakwe, C. K., Rangan, E. S., Kumar, S., Gutjahr, G., Miao, X., Brooks, A. W., Maguire, P., Mishra, T., McGuire, L., Snyder, M. P.
2025; 4 (11): e0001093

- **A bioinspired microfluidic wearable sensor for multiday sweat sampling, transport, and metabolic analysis.** *Science advances*
Shin, S., Liu, R., Yang, Y., Lasalde-Ramírez, J. A., Kim, G., Won, C., Min, J., Wang, C., Fan, K., Han, H., Uwakwe, C., Heng, W., Hsiai, et al
2025; 11 (33): eadw9024
- **Nonperfusion Area and Other Vascular Metrics by Wider Field Swept-Source OCT Angiography as Biomarkers of Diabetic Retinopathy Severity.** *Ophthalmology science*
Garg, I., Uwakwe, C., Le, R., Lu, E. S., Cui, Y., Wai, K. M., Katz, R., Zhu, Y., Moon, J. Y., Li, C. Y., Láíns, I., Elliott, D., Elze, et al
2022; 2 (2)