

CURRICULUM VITAE

Kristen Harris Nwanyanwu, MD, MBA, MHS

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School: Yale School of Medicine

Education:

xxxx - 04/2004 BS (Hon), University of Michigan, Biochemistry and African-American Studies, Ann Arbor, MI
xxxx - 05/2009 MBA, The Wharton School, Philadelphia, PA
xxxx - 05/2009 MD, University of Pennsylvania School of Medicine, Philadelphia, PA
xxxx - 05/2020 MHS, Yale University, Health Science, New Haven, CT

Career/Academic Appointments:

01/2007 - 01/2009 Wharton Fellowship, Wharton School, University of Pennsylvania, Philadelphia, PA
06/2010 Transitional Internship, Internal Medicine, Albert Einstein Medical Center, Philadelphia, PA
06/2013 Ophthalmology Residency, Ophthalmology, Kellogg Eye Center, University of Michigan, Ann Arbor, MI
06/2015 Vitreoretinal Surgery Fellowship, Ophthalmology and Visual Sciences, Illinois Eye and Ear Infirmary, University of Illinois at Chicago, Chicago, IL
08/2015 - 06/2022 Assistant Professor, Ophthalmology and Visual Science, Yale School of Medicine, New Haven, CT
07/2022 - 06/2027 Associate Professor on Term, Ophthalmology and Visual Science, Yale School of Medicine, New Haven, CT
07/2023 - 06/2027 Associate Professor on Term, Biomedical Informatics and Data Science, Yale School of Medicine, New Haven, CT
07/2024 - 12/2024 Associate Professor on Term, Management, Yale School of Medicine, New Haven, CT

Administrative Positions:

2024 - Present Associate Director of Community Engaged Research and Participant Recruitment, Yale Center for Clinical Investigation (YCCI), Yale School of Medicine, New Haven, CT

Professional Honors & Recognition:

International/National/Regional

2023 Young Alumni Service Award, University of Pennsylvania Perelman School of Medicine
2023 Secretariat Award, American Academy of Ophthalmology
2023 Director's Award, National Eye Institute
2024 Scientific Award, National Medical Association Ophthalmology Section
2024 Leadership Development Program, American Academy of Ophthalmology - American Society of Retinal Specialists
2025 AOA, AOA Beta Chapter at the University of Pennsylvania School of Medicine
2025 National Academy of Medicine Emerging Leaders Forum Invitee

Yale University/Yale School of Medicine/Hospital System

2017 Junior Faculty Scholar Award, Yale Center for Clinical Research
2024 Orthwein Scholar, Yale School of Medicine

Invited Speaking Engagements, Presentations & Workshops Not Affiliated With Yale:

International/National

1. "Health Equity in Diabetic Retinopathy: Addressing Health Disparities to End Preventable Blindness". Visiting Professorship, Wilmer - Johns Hopkins University, July 2021. (Lecture)
2. "Diabetic retinopathy screening, trials and treatment from an equity lens". American Diabetes Association, American Diabetes Association Webinar, New Haven, CT, January 2024. (Oral Presentation)
3. "Grand Rounds". Harvard University, Massachusetts Eye and Ear Infirmary Grand Rounds, Cambridge, MA, January 2024. (Oral Presentation)
4. "Designing Better Systems to Advance Equity in Diabetic Retinopathy". Visiting Professor, San Francisco, CA, March 2024. (Lecture)
5. "Toward a Framework to Improve Diversity and Inclusion in Clinical Trials". National Academies of Sciences, Engineering, and Medicine, Washington, DC, May 2024. (Other)
6. "The How of Health Equity: DR at the Margins". Grand Rounds, Boston, MA, May 2024. (Lecture)
7. "Participatory Science to Advance Equity in Diabetic Retinopathy". Visiting Professor, Columbus, OH, June 2024. (Lecture)
8. "Interventions for social determinants of health in diabetic retinopathy". Retina World Congress, International Webinar, July 2024. (Lecture)
9. "Vision Research and Citizen Scientist". Prevent Blindness 13th Annual Focus on Eye Health Summit, Webinar, July 2024. (Oral Presentation)

10. "Women in Retina Mentoring Symposium". American Society of Retinal Specialists , Stockholm, Stockholm County, July 2024. (Other)
11. "Retina Cafe". American Academy of Ophthalmology, Chicago, IL, October 2024. (Other)
12. "Eradicate TRD". Envision Conference, San Juan, San Juan, February 2025. (Lecture)
13. "Visionary Courage: Journey of a Health Equity Ophthalmologist". Alpha Omega Alpha University of Pennsylvania , Philadelphia, PA, March 2025. (Address)

Peer-Reviewed Presentations Given at Meetings Not Affiliated With Yale:

International/National

1. **Harris Nwanyanwu K** . Sight-Saving Engagement and Evaluation in New Haven (SEEN) Program Identifies and Addresses Adverse Social Determinants in Individuals at High Risk for Blindness. Retina Society , Lisbon, Lisbon, September 2024. (Oral Presentation)
2. **Harris Nwanyanwu K** . Risk Factors for Complex Vitrectomy in Proliferative Diabetic Retinopathy: A Distributed Learning Analysis. Association for Research in Vision and Ophthalmology, Association for Research in Vision and Ophthalmology, Salt Lake City, UT, May 2025. (Poster Presentation)

Professional Service:

Peer Review Groups/Grant Study Sections

2021 - Present Reviewer, Early Career Reviewer, Pathophysiology of Eye Disease, Special Emphasis Panel, Scientific Review Group, NIH/NEI

Advisory Boards

2022 Member, Membership Advisory Group, American Diabetes Association
2024 Member, Focus on Diabetes Program: Communicating the Risk of Vision Loss and Effective Prevention Strategies, American Diabetes Association
2024 - Present Advisor, Eye Health Advisory Group , American Diabetes Association

Professional Organizations

American Academy of Ophthalmology Taskforce on Disparities in Eyecare: Sub-Taskforce on Leveraging Data

2021 - 2022 Member, American Academy of Ophthalmology Taskforce on Disparities in Eyecare: Sub-Taskforce on Leveraging Data

American Academy of Ophthalmology Taskforce on Expanding Access to Care in Federally Qualified Health Centers

2022 - Present Member, American Academy of Ophthalmology Taskforce on Expanding Access to Care in Federally Qualified Health Centers

Penn Med Black Alumni Society

2020 - Present Founding Member, Penn Med Black Alumni Society

Yale University / Hospital System

Medical School

2021 - 2024	Faculty Member, Dean's Faculty Advisory Council
2022 - 2024	Executive Committee Member, Dean's Faculty Advisory Council
2022 - Present	Executive Committee Member, Minority Organization for Retention and Expansion

Public Service / Media Presence

Public Service

2022 - 2025	Board Member, Neighborhood Music School
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Bibliography:

Peer-Reviewed Original Research

1. **Nwanyanwu KH** , Comer G, Demirci H. Presumed choroidal metastasis secondary to clear cell sarcoma of the right knee. *International Ophthalmology* 2012, 33: 163-165. [PMID: 23053771](#) , [DOI: 10.1007/s10792-012-9642-1](#) .
2. **Harris Nwanyanwu KM** , De Lott LB, Cornblath WT, Elnor VM. Transient monocular vision loss due to churg-strauss syndrome vasculitis. *JAMA Ophthalmology* 2013, 131: 117-9. [PMID: 23307226](#) , [DOI: 10.1001/jamaophthalmol.2013.576](#) .
3. Stein JD, Newman-Casey PA, Kim DD, **Nwanyanwu KH** , Johnson MW, Hutton DW. Cost-Effectiveness of Various Interventions for Newly Diagnosed Diabetic Macular Edema. *Ophthalmology* 2013, 120: 1835-1842. [PMID: 23642372](#) , [PMCID: PMC3737388](#) , [DOI: 10.1016/j.ophtha.2013.02.002](#) .
4. **Nwanyanwu K** , Talwar N, Gardner TW, Wrobel JS, Herman WH, Stein JD. Predicting Development of Proliferative Diabetic Retinopathy. *Diabetes Care* 2013, 36: 1562-1568. [PMID: 23275374](#) , [PMCID: PMC3661803](#) , [DOI: 10.2337/dc12-0790](#) .
5. **Nwanyanwu KH** , Lim JI. Smudge in My Vision. *JAMA Ophthalmology* 2013, 131: 1637-1638. [PMID: 24337560](#) , [DOI: 10.1001/jamaophthalmol.2013.7410](#) .
6. Schneider EW, Mruthyunjaya P, Talwar N, **Nwanyanwu K** , Nan B, Stein JD. Reduced Fluorescein Angiography and Fundus Photography Use in the Management of Neovascular Macular Degeneration and Macular Edema During the Past Decade Imaging Tests for Macular Diseases. *Investigative Ophthalmology & Visual Science* 2014, 55: 542-549. [PMID: 24346174](#) , [PMCID: PMC3907135](#) , [DOI: 10.1167/iovs.13-13034](#) .
7. **Nwanyanwu KH** , Newman-Casey PA, Gardner TW, Lim JI. Beyond HbA1c: Environmental Risk Factors for Diabetic Retinopathy. *Journal Of Clinical & Experimental Ophthalmology* 2015, 06: 405. [PMID: 26973797](#) , [PMCID: PMC4785841](#) , [DOI: 10.4172/2155-9570.1000405](#) .
8. Alasil T, Ketner S, Coady PA, Adelman RA, **Nwanyanwu KH** . Idiopathic retinal vasculitis, aneurysms and neuroretinitis case report. *American Journal Of Ophthalmology Case Reports* 2016, 2: 33-36. [PMID: 29503895](#) , [PMCID: PMC5757360](#) , [DOI: 10.1016/j.ajoc.2016.04.006](#) .

9. Hussnain SA, Ketner S, Coady PA, Kombo N, **Nwanyanwu K** . Ocular Syphilis Presenting as Bilateral Acute Retinal Necrosis in an Immunocompetent Host. Connecticut Medicine 2016, 80: 533-536. [PMID: 29772137](#) .
10. **Nwanyanwu KH** , Nardini H, Shaughness G, Nunez-Smith M, Newman-Casey PA. Systematic review of community-engaged research in ophthalmology. Expert Review Of Ophthalmology 2017, 12: 233-241. [PMID: 29333193](#) , [PMCID: PMC5759339](#) , [DOI: 10.1080/17469899.2017.1311787](#) .
11. Hall LB, **Nwanyanwu K** . Spontaneous Rupture of an Iris Stromal Cyst. Ophthalmology 2018, 125: 30. [PMID: 29268865](#) , [DOI: 10.1016/j.ophtha.2017.09.005](#) .
12. Linderman W, Apostolopoulos N, Gopal A, Encandela J, Teng C, **Nwanyanwu K** , Forster S. Near-Peer Teaching Outreach Programs to Increase Minority Physician Recruitment. Journal Of Academic Ophthalmology 2018, 10: e122-e126. [DOI: 10.1055/s-0038-1667202](#) .
13. **Nwanyanwu K** , Nunez-Smith M, Desai M, Gardner T. 2458 Determining the prevalence and associated multilevel characteristics of undiagnosed diabetic retinopathy. Journal Of Clinical And Translational Science 2018, 2: 67-68. [PMCID: PMC6799117](#) , [DOI: 10.1017/cts.2018.247](#) .
14. Williams BK, Welch R, **Nwanyanwu KH** , Shields CL. Hemorrhagic occlusive retinal vasculitis leading to the diagnosis of ciliary body melanoma. Saudi Journal Of Ophthalmology 2018, 33: 81-83. [PMID: 30930668](#) , [PMCID: PMC6424716](#) , [DOI: 10.1016/j.sjopt.2018.09.004](#) .
15. Fairless E, **Nwanyanwu K** . Barriers to and Facilitators of Diabetic Retinopathy Screening Utilization in a High-Risk Population. Journal Of Racial And Ethnic Health Disparities 2019, 6: 1244-1249. [PMID: 31463812](#) , [PMCID: PMC6880869](#) , [DOI: 10.1007/s40615-019-00627-3](#) .
16. Yusuf R, Chen EM, **Nwanyanwu K** , Richards B. Neighborhood Deprivation and Adherence to Initial Diabetic Retinopathy Screening. Ophthalmology Retina 2020, 4: 550-552. [PMID: 32139294](#) , [PMCID: PMC8281953](#) , [DOI: 10.1016/j.oret.2020.01.016](#) .
17. Chen EM, Kombo N, Teng CC, Mruthyunjaya P, **Nwanyanwu K** , Parikh R. Ophthalmic Medication Expenditures and Out-of-Pocket Spending An Analysis of United States Prescriptions from 2007 through 2016. Ophthalmology 2020, 127: 1292-1302. [PMID: 32359935](#) , [PMCID: PMC7508869](#) , [DOI: 10.1016/j.ophtha.2020.04.037](#) .
18. Chen EM, Ahluwalia A, Parikh R, **Nwanyanwu K** . Ophthalmic Emergency Department Visits: Factors Associated With Loss to Follow-up. American Journal Of Ophthalmology 2020, 222: 126-136. [PMID: 32882220](#) , [PMCID: PMC8328190](#) , [DOI: 10.1016/j.ajo.2020.08.038](#) .
19. Fairless EA, **Nwanyanwu KH** , Forster SH, Teng CC. Ophthalmology Departments Remain Among the Least Diverse Clinical Departments at United States Medical Schools. Ophthalmology 2021, 128: 1129-1134. [PMID: 33440211](#) , [PMCID: PMC8328189](#) , [DOI: 10.1016/j.ophtha.2021.01.006](#) .
20. Chen EM, Andoh JE, **Nwanyanwu K** . Socioeconomic and Demographic Disparities in the Use of Telemedicine for Ophthalmic Care during the COVID-19 Pandemic. Ophthalmology 2021, 129: 15-25. [PMID: 34245753](#) , [PMCID: PMC8415734](#) , [DOI: 10.1016/j.ophtha.2021.07.003](#) .
21. Nwanyanwu KMJH, Nunez-Smith M, Gardner TW, Desai MM. Awareness of Diabetic Retinopathy: Insight From the National Health and Nutrition Examination Survey. American Journal Of Preventive Medicine 2021, 61: 900-909. [PMID: 34426057](#) , [PMCID: PMC8608699](#) , [DOI: 10.1016/j.amepre.2021.05.018](#) .
22. Scott AW, Elam AR, **Nwanyanwu K** . Addressing Disparities in Eye Care—The Time Is Now. JAMA Ophthalmology 2021, 139: 935-936. [PMID: 34351375](#) , [DOI: 10.1001/jamaophthalmol.2021.2053](#) .

23. **Nwanyanwu K** , Scott AW, Elam AR. Addressing Disparities in Ophthalmic Research. JAMA Ophthalmology 2021, 139: 1261-1262. [PMID: 34673894](#) , [DOI: 10.1001/jamaophthalmol.2021.4203](#) .
24. **Nwanyanwu K** . Participatory Science—The Path Toward Health Equity. JAMA Ophthalmology 2022, 140: 132-133. [PMID: 34913957](#) , [DOI: 10.1001/jamaophthalmol.2021.5368](#) .
25. Greig EC, Gonzalez-Colaso R, **Nwanyanwu K** . Racial, Ethnic, and Socioeconomic Disparities Drive Appointment No-Show in Patients with Chronic Eye Disease. Journal Of Racial And Ethnic Health Disparities 2022, 10: 1790-1797. [PMID: 35864353](#) , [PMCID: PMC10392104](#) , [DOI: 10.1007/s40615-022-01363-x](#) .
26. Dhodapkar RM, Li E, **Nwanyanwu K** , Adelman R, Krishnaswamy S, Wang JC. Deep learning for quality assessment of optical coherence tomography angiography images. Scientific Reports 2022, 12: 13775. [PMID: 35962007](#) , [PMCID: PMC9374672](#) , [DOI: 10.1038/s41598-022-17709-8](#) .
27. Legault G, **Nwanyanwu K** , Baxter S. Data Sciences and Visual Health Disparities. Ophthalmology 2022, 129: 1085-1086. [PMID: 36058740](#) , [DOI: 10.1016/j.ophtha.2022.06.032](#) .
28. Freedman IG, Li E, Hui L, Adelman RA, **Nwanyanwu K** , Wang JC. The Impact of Image Processing Algorithms on Optical Coherence Tomography Angiography Metrics and Study Conclusions in Diabetic Retinopathy. Translational Vision Science & Technology 2022, 11: 7. [PMID: 36107113](#) , [PMCID: PMC9483236](#) , [DOI: 10.1167/tvst.11.9.7](#) .
29. Elam AR, Tseng VL, Rodriguez TM, Mike EV, Warren AK, Coleman AL, American Academy of Ophthalmology Taskforce on Disparities in Eye Care. Disparities in Vision Health and Eye Care. Ophthalmology 2022, 129: e89-e113. [PMID: 36058735](#) , DOI: 10.1016/j.ophtha.2022.07.010.
30. Andoh J, Mehta S, Chen E, Mir T, **Nwanyanwu K** , Teng C. Domestic Violence-Related Ocular Injuries Among Adult Patients: Data from the Nationwide Emergency Department Sample, 2008–2017. Ophthalmic Epidemiology 2023, 31: 169-177. [PMID: 37345877](#) , [PMCID: PMC10739625](#) , [DOI: 10.1080/09286586.2023.2222792](#) .
31. Andoh J, Mir T, Teng C, Wang E, **Nwanyanwu K** . Factors Associated With Visual Impairment Among Adults With a History of Criminal Justice Involvement. Journal Of Correctional Health Care 2023, 29: 329-337. [PMID: 37733299](#) , [DOI: 10.1089/jchc.22.07.0056](#) .
32. Andoh J, Miguez S, Andoh S, Mehta S, Mir T, Chen E, Jain S, Teng C, **Nwanyanwu K** . Epidemiologic trends of domestic violence–related ocular injuries among pediatric patients: data from the Nationwide Emergency Department Sample 2008-2017. Journal Of American Association For Pediatric Ophthalmology And Strabismus 2023, 27: 335.e1-335.e8. [PMID: 37931837](#) , [PMCID: PMC10859911](#) , [DOI: 10.1016/j.jaapos.2023.09.008](#) .
33. Oleribe OO, Taylor-Robinson AW, Nwanyanwu OC, Morgan MY, Taylor-Robinson SD. Four Years Since COVID-19 Day Zero: A Time to Evaluate Past and Future Pandemic Control Policies and Practices in Sub-Saharan Africa? Risk Manag Healthc Policy 2024, 17: 505-511. [PMID: 38481394](#) , DOI: 10.2147/RMHP.S449701.
34. Ahmed O, Applebaum S, Ahmad M, Ahmed D, Juthani P, **Nwanyanwu K** . Needs assessment and patient-guided development of a video-based diabetic retinopathy patient education tool. Health Education Journal 2024, 83: 587-597. [DOI: 10.1177/00178969241258818](#) .
35. Ravindranath R, Stein JD, Hernandez-Boussard T, Fisher AC, Wang SY, SOURCE Consortium. The Impact of Race, Ethnicity, and Sex on Fairness in Artificial Intelligence for Glaucoma Prediction Models. Ophthalmol Sci 2024, 5: 100596. [PMID: 39386055](#) , DOI: 10.1016/j.xops.2024.100596.

36. Frimpong A, Granados A, Chang T, Fu J, Moore S, Applebaum S, Adepoju B, Kaur M, Hari Krishnan V, Levi A, McCall T, **Nwanyanwu K** . Recommendations for Designing a Digital Health Tool for Blindness Prevention among High-Risk Diabetic Retinopathy Patients: A Focus Group Study with Adults with Diabetes (Preprint). JMIR Formative Research 2024 [DOI: 10.2196/65893](https://doi.org/10.2196/65893) .
37. Owete A, Ionin R, Huryn L, Cukras C, Blain D, Agather A, Hufnagel R, Brooks B, **Nwanyanwu K** , Zein W. Seeing in Color: Inclusion and Characterization of Hereditary Eye Disease in African Americans. Translational Vision Science & Technology 2024, 13: 4. [PMID: 39226063](https://pubmed.ncbi.nlm.nih.gov/39226063/) , [PMCID: PMC11373706](https://pubmed.ncbi.nlm.nih.gov/PMC11373706/) , [DOI: 10.1167/tvst.13.9.4](https://doi.org/10.1167/tvst.13.9.4) .
38. Woodward MA, Hicks PM, Harris-Nwanyanwu K, Modjtahedi B, Chan RVP, Vogt EL, Lu MC, Newman-Casey PA, American Academy of Ophthalmology Taskforce on Ophthalmology and Community Health Centers. Eye Care in Federally Qualified Health Centers. Ophthalmology 2024, 131: 1225-1233. [PMID: 38697267](https://pubmed.ncbi.nlm.nih.gov/38697267/) , DOI: 10.1016/j.ophtha.2024.04.019.
39. Fraz MA, Kim BM, Chen JJ, Lum F, Chen J, Liu GT, Hamedani AG, SOURCE Consortium. Nationwide Prevalence and Geographic Variation of Idiopathic Intracranial Hypertension among Women in the United States. Ophthalmology 2024 [PMID: 39510331](https://pubmed.ncbi.nlm.nih.gov/39510331/) , DOI: 10.1016/j.ophtha.2024.10.031.

Peer-Reviewed Reviews, Practice Guidelines, Standards, and Consensus Statements

1. Andoh J, Ezekwesili A, **Nwanyanwu K** , Elam A. Disparities in Eye Care Access and Utilization: A Narrative Review. Annual Review Of Vision Science 2023, 9: 15-37. [PMID: 37254050](https://pubmed.ncbi.nlm.nih.gov/37254050/) , [DOI: 10.1146/annurev-vision-112122-020934](https://doi.org/10.1146/annurev-vision-112122-020934) .

Peer-Reviewed Educational Materials

1. Brown AC, Nwanyanwu K. Retinopathy of Prematurity. 2023 [PMID: 32965990](https://pubmed.ncbi.nlm.nih.gov/32965990/) .

Commentaries, Editorials and Letters

1. Elam AR, **Nwanyanwu KH** , Scott AW. Elevating Social Determinants of Health and Community Engagement in Eye Care—The Time Is Now. JAMA Ophthalmology 2022, 140: 453-454. [PMID: 35323858](https://pubmed.ncbi.nlm.nih.gov/35323858/) , [DOI: 10.1001/jamaophthalmol.2022.0409](https://doi.org/10.1001/jamaophthalmol.2022.0409) .
2. Baxter SL, **Nwanyanwu K** , Legault G, Lee AY. Data Sources for Evaluating Health Disparities in Ophthalmology Where We Are and Where We Need to Go. Ophthalmology 2022, 129: e146-e149. [PMID: 36058733](https://pubmed.ncbi.nlm.nih.gov/36058733/) , [PMCID: PMC9509471](https://pubmed.ncbi.nlm.nih.gov/PMC9509471/) , [DOI: 10.1016/j.ophtha.2022.06.035](https://doi.org/10.1016/j.ophtha.2022.06.035) .