

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
 Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: Moore, Shannan Gabriella

eRA COMMONS USER NAME (credential, e.g., agency login):

POSITION TITLE: Ophthalmology Resident Physician, Post Graduate Year 1

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	Start Date MM/YYYY	Completion Date MM/YYYY	FIELD OF STUDY
Cornell University	BS	08/2015	05/2019	Biology and Society
Kaiser Permanente Bernard J. Tyson School of Medicine	M.D.	07/2020	05/2025	Medicine
University of New Mexico Ophthalmology Residency		06/2025	06/2029	Ophthalmology

A. Personal Statement

My medical career thus far has involved research in two main areas of Ophthalmology – Diabetic Retinopathy and Glaucoma; inclusive of mixed method research and large data analysis. At Kaiser Permanente School of Medicine, I worked with Dr. Bobeck Modjtahedi on two projects focused on diabetic retinopathy. The first evaluated whether initiation of treatment for vision-threatening disease influenced glycemic control, using hemoglobin A1c as a quantitative measure. This work led to an ongoing qualitative study examining intrinsic and extrinsic factors that shape patient motivation and disease management, with the goal of preventing disease progression and blindness. The second project assessed a virtual care program for patients overdue for diabetic retinopathy screening, evaluating its ability to detect progression, triage in-person care, and improve adherence through targeted outreach. I further developed these interests during a one-year research fellowship with Dr. Kristen Nwanyanwu at Yale School of Medicine, where I focused on health equity, community engagement, and mixed methods research. I gained experience in qualitative research informed by community outreach as well as large-scale data analysis. I have upcoming work on qualitative patient experiences with diabetic retinopathy and motivations and a large database project on tractional retinal detachments.

1. Moore S, Wu J, Pio J, Modjtahedi BS. Glycemic Control in Patients After Initiation of Treatment for Vision-Threatening Diabetic Retinopathy. *J Vitreoretin Dis.* 2024;8(3):257-262. Published 2024 Mar 14. Doi:10.1177/24741264241232191.
2. Moore SG; Sharma M, Hedayi R, Fong DS, Modjtahedi, BS. Results of a New Virtual Care Program for Patients Overdue for Diabetic Retinopathy Evaluation. *Investigative Ophthalmology & Visual Science.* 2023;64(8):3757.

B. Positions, Scientific Appointments and Honors

Positions and Scientific Appointments

06/2016 – 08/2016	Student Research Assistant, Cornell University
05/2024 – 06/2025	Postgraduate and Postdoctoral Researcher, Yale University School of Medicine
2020 – Present	Member, American Medical Association (AMA)
2024 – Present	Member, The Association for Research in Vision and Ophthalmology
2025 – Present	Member, American Academy of Ophthalmology
2025 – Present	Member, National Medical Association

Honors and Accomplishments

2019	B.S. Cum Laude, Cornell University
2021, 2022	Grant Recipient / Mentee of Fostering Careers for Underrepresented Stars (FOCUS) at Vit Buckle Society (VBS)
2022 – Present	Grant Recipient / Mentee of The American Society of Retina Specialists' Empowerment and Opportunity Mentorship Program
2023	Winner of Rabb-Venable Excellence in Ophthalmology Research Program Competition as part of the 2023 Annual Convention & Scientific Assembly of the National Medical Association
2023	Recipient of UCLA Department of Ophthalmology Underrepresented in Ophthalmology Visiting Medical Student Scholarship for the 2023 academic year
2026	Advocacy Ambassador at the AAO Midyear Forum Sponsored by the National Medical Association

C. Contributions to Science

Undergrad Research: During the summer before my sophomore year at Cornell University, I was selected to be a student research assistant in Dr. Dave Collum's research group in the Department of Chemistry. Under his direction, I learned fundamental laboratory organic chemistry techniques such as thin layer and column chromatography, extraction, and distillation.

Medical School Research: My medical school research focused on both diabetic retinopathy and glaucoma. For glaucoma, I worked with Drs. Richter and Modjtahedi to conduct a narrative review on barriers and interventions to glaucoma topical medication adherence. Additionally, I worked with Dr. Chak to provide new insight on how our autonomic nervous system may play a role in glaucomatous progression. For my work in diabetic retinopathy, I conducted two projects with Dr. Modjtahedi, one I conceptualized to gain insight on if a patient began treatment for diabetic retinopathy, would their glycemic control improve. Our second project together surrounded testing if a tele-screening model could be used for patients with established moderate diabetic retinopathy.

1. **Moore, SG**, Richter G, Modjtahedi BS. Factors Affecting Glaucoma Medication Adherence and Interventions to Improve Adherence: A Narrative Review. *Ophthalmol Ther.* 2023;12(6):2863-2880
2. **Moore S**, Wu J, Pio J, Modjtahedi BS. Glycemic Control in Patients After Initiation of Treatment for Vision-Threatening Diabetic Retinopathy. *J Vitreoretin Dis.* 2024;8(3):257-262. Published 2024 Mar 14. Doi:10.1177/24741264241232191.
3. **Moore SG**; Sharma M, Hedayi R, Fong DS, Modjtahedi, BS. Results of a New Virtual Care Program for Patients Overdue for Diabetic Retinopathy Evaluation. *Investigative Ophthalmology & Visual Science.* 2023;64(8):3757.

- Moore SG, Chak G.** Is there a link between chronic stress, autonomic dysregulation, and glaucomatous progression? *Glaucoma Today*. Accessed February 20, 2025. <https://glaucomatoday.com/articles/2024-sept-oct/is-there-a-link-between-chronic-stress-autonomic-dysregulation-and-glaucomatous-progression?c4src=home%3Afeed>.

Postgraduate / Postdoctoral Research: During medical school, I took a leave of absence to complete a one-year research fellowship in the Sight Saving Engagement and Evaluation (SEEN) Lab under PI Dr. Kristen Nwanyanwu. In this research fellowship, I delved deeper into mixed methods research, wrote IRBs, and assisted with research grants. In addition to conducting research for the lab, I conducted my own research projects, one that is a semi-quasi qualitative follow up to my work in CA on patient motivations to improve glycemic control; and a second big data nationwide project on tractional retinal detachments, both of which are in the process of being written and submitted for publication.

- Moore SG, Frimpong A, Harris-Nwanyanwu K.** Interactive Patient Cases - Retina #2. Diversity and Inclusion Education - Resident Clinical Education. Accessed February 20, 2025. <https://www.aao.org/education/diversity-and-inclusion-education>.
- Frimpong A, Granados A, Chang T, Fu J, **Moore SG**, Applebaum S, Adepoju B, Kaur M, Hari Krishnan V, Levi A, McCall T, Nwanyanwu KH. Recommendations for Designing a Digital Health Tool for Blindness Prevention Among High-Risk Diabetic Retinopathy Patients: Qualitative Focus Group Study of Adults With Diabetes. *JMIR Form Res*. 2025 Jun 13;9:e65893. doi: 10.2196/65893.
- Frimpong A, Granados A, Chang T, Fu J, Applebaum SS, **Moore SG**, Kaur M, Adepoju B, Hari Krishnan V, Levi A, McCall T, Nwanyanwu KH. Digital Health Tool for Preventing Blindness From Diabetic Retinopathy: Protocol for a Qualitative Study. *JMIR Res Protoc*. 2025 Nov 12;14:e65894. doi: 10.2196/65894.

D. Scholastic Performance

Kaiser Permanente School of Medicine Grading System:

*Longitudinal Integrated Core Clerkship / Advanced Clinical Selective – Graded on H/P/F
Rotation / Clinical Selective / Sub-Internship – Grade on P/F

YEAR	COURSE TITLE	GRADE
2021 - 2022	Longitudinal Integrated Core Clerkship: Family Medicine / Internal Medicine	H*
2021 - 2022	Longitudinal Integrated Core Clerkship: Obstetrics / Gynecology	H*
2021 - 2022	Longitudinal Integrated Core Clerkship: Pediatrics	P*
2021 - 2022	Longitudinal Integrated Core Clerkship: Surgery	P*
2021 - 2022	Longitudinal Integrated Core Clerkship: Psychiatry	H*
2021 - 2022	Longitudinal Integrated Core Clerkship: Emergency Medicine	P*
2023	Ophthalmology Elective: Pediatric and Adult Strabismus	P
2023	Neurology Rotation	P
2023	Critical Care Rotation – Cardiac Care Unit	P*
2023	Advanced Clinical Selective – Internal Medicine	H*
2023	Advanced Clinical Selective - Ophthalmology	H*
2023	Clinical Selective: Pediatric Rheumatology	P
2023	Clinical Selective: Endocrinology	P
2023	Subclinical Internship – Ophthalmology Consult, UCLA	P (UCLA grading: H)
2023	Clinical Selective: Genetics – Adult and Hereditary Cancer	P
2023	Clinical Selective: Infectious Disease	P
2023	Clinical Selective: Women’s Health – Ambulatory Based	P
2024	Community Medicine Rotation – Northeastern Valley Health Corporation	P
2024	Clinical Selective: Nephrology	