Margarita Labkovich, M.D., M.S.
Ophthalmology Resident Physician | Manhattan Eye, Ear, and Throat Hospital/Northwell Health
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I am a rising PGY4 ophthalmology resident at Manhattan Eye, Ear, and Throat Hospital/Northwell Health, selected to be an Educational Chief for the upcoming year. My research spans technology, education, anterior segment, and oculoplastics. I co-founded Retina Technologies, a VR-based portable vision screening startup, and am passionate about global health, community outreach, education, and innovation in ophthalmology.

a) Professional Preparation

Manhattan Eye, Ear, and Throat Hospital/Northwell Health	Ophthalmology Resident	7/2023-Present
Icahn School of Medicine at Mount Sinai	Doctor of Medicine	8/2018-6/2023
Schwarzman Scholars, Tsinghua University	Masters in Global Affairs	8/2021-6/2022
Universidad de Granada	Spanish Studies	4/2018-6/2018
Hunter College (CUNY)	Biology B.A.	8/2013-6/2017

b) Appointments

Education Chief | Manhattan Eye, Ear, and Throat Hospital/Northwell Health	9/2024-Present
Co-Founder and COO | Retina Technologies	2/2018-4/2025
Ophthalmology Interest Group Leader | Mount Sinai	9/2019-9/2020
Clinical Senior in Ophthalmology | East Harlem Health Outreach Partnership	9/2020-9/2023
Fellow | Humanity in Action	6/2018-Present
Intern | Small World Initiative Nonprofit	3/2016-9/2016
Leadership Council | Peer Health Exchange Nonprofit	9/2014-6/2017

c) Grants and Awards

Manhattan Eye, Ear, and Throat Hospital Alumni Foundation Research Grant (2025)
Global Ophthalmology Summit Innovation Award (2024)
Galderma Educational Grant (2024)
Young MD Connect Grant (2025)
Mount Sinai 4D Technology Development CTSA, NIH-sponsored grant UL1TR001433 (2019)
Jonas E. Salk Research award (2018)

d) Synergistic Activities

- Clinical Information Coordinator at the NYU Langone (2017-2018): *Assisted in an Interventional Neuro-radiology clinical practice by performing clinical and in-office tasks and insurance coding.*
- Weill Cornell Research Associate (2017-2018): *Conducted several clinical studies in the Emergency Department (ED), aimed at establishing metrics for physical markers of elder abuse and collected data to evaluate effects of exercise in improving post-concussion recovery time.*
- Neurobiology Research (2015-2017): S*tudied basolateral amygdala to basal forebrain and prefrontal cortex circuity in the context of fear conditioning and safety environments, using viral tracing injections, optogenetics, and electrophysiology.*

e) Publications & Intellectual Property

- **Labkovich M,** Shah P, Barmas-Alamdari D, Djougarian A, Lee JM. A Rare Acute Presentation of Simultaneous Bilateral Angle Closure in a Patient Using a Red Light Therapy Mask. Americal Jounral of Ophthalmology Case Reports. 2026. Accepted
- **Labkovich M**, Warburton AJ, Cheng CP, Okome OO, Navarro V, Serafini RA, Valliani AA, Reddy H, Chelnis J. Virtual Reality Enables Rapid and Multi-Faceted Vision Screening in a Pilot Study. Journal of Clinical & Translational Ophthalmology. 2026; 4(1):8. https://doi.org/10.3390/jcto4010008
- **Labkovich M**, Coombs, A.V. Orbital Necrotizing Fasciitis: A Comprehensive Review of Diagnosis and Management. Curr Surg Rep 13, 40 (2025). https://doi.org/10.1007/s40137-025-00473-9
- Shah PP, **Labkovich M**, Zhu D, Goldburg S, Lieberman RM. Retina Meets Artificial Intelligence: ChatGPT Is Changing Retinal Care. Adv Ophthalmol Optom. 2025;10(1):137-146. doi:10.1016/j.yaoo.2025.02.004
- **Labkovich M**, Warburton AJ, Ying S, Valliani AA, Kissel N, Serafini RA, Mathew R, Paul M, Hovstadius SM, Navarro VN, Patel A, Reddy H, Chelnis JG. Virtual reality hemifield measurements for corrective surgery eligibility in ptosis patients: A pilot clinical trial. TVST Transl Vis Sci Technol. 2022;11(10):35, https://doi.org/10.1167/tvst.11.10.35
- **Labkovich M**, Paul M, Kim E, Zhou D, Serafini RA, Lakhtakia S, Valliani A, Patel A, Sklar B, Warburton A, Patel A, Zhou D, Sklar B, Chelnis J, Elahi E. Portable Hardware & Software Technologies for Addressing Ophthalmic Health Disparities: A Systematic Review. SAGE Digital Health. 2022 May 6;8:20552076221090042. PMID: 35558637. DOI:10.1177/20552076221090042
- Stujenske, JM, O'Neill PK, Fernandes-Henriques C, Nahmoud I, Goldberg S, Singh A, Diaz L, **Labkovich M**, Hardin W, Bolkan SS, Reardon TR, Spellman TJ, Salzman CD, Gordon JA, Liston C, Likhtik E. Prelimbic Cortex Drives Discrimination of Non-aversion via Amygdala Somatostatin Interneurons. Neuron – Cell Press. 2022 July;14(110):2258-2267. PMID: 35397211. DOI:10.1016/j.neuron.2022.03.020
- **Labkovich M**, Jacobs EB, Bhargava S, Pasquale LR, Ritch R. Ginkgo Biloba Extract in Ophthalmic and Systemic Disease, With a Focus on Normal-Tension Glaucoma. Asia Pac J Ophthalmol (Phila). 2020;9(3):215-225. DOI:10.1097/APO.0000000000000279
- Henick D, **Labkovich M**, Radell J, Chopra N, Chadha N. Characterization of Medical Student Attitudes Towards the Use of Peer Physical Exam Learning for the Dilated Fundoscopic Exam. Journal Of Academic Ophthalmology. In Review. 2020
- **Labkovich M**, Warburton AJ, Serafini RA, Valliani AA, Mathew R, Faruque P, Patel AD, Chelnis J, Reddy H. Superior Vision Field Screening in Ptosis Patients using Alternative Technologies. Investigative Ophthalmology and Visual Science (IOVS). 2020 June. Volume 61, Issue 7.
- Stujenske, JM, O'Neill PK, Nahmoud I, Goldberg S, Diaz L, **Labkovich M**, Hardin W, Bolkan SS, Reardon TR, Spellman TJ, Salzman CD, Gordon JA, Likhtik E. Prelimbic-dependent activation of amygdala somatostatin interneurons signals non-aversive cues to promote discrimination. bioRxiv 2020.06.23.156018; DOI: https://doi.org/10.1101/2020.06.23.156018
- "Virtual Reality Screening and Eye Imaging". Application number 62891936, filed August 26, 2019.
- "Modular platform for Virtual Reality Visual Screening, Eye Imaging, and Clinical Diagnosis". Application Number: 63010662, filed April 15, 2020.