

# Margaret McDougal Runner, MD

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## EDUCATION / TRAINING

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- 07/2021-07/2023 Associated Retinal Consultants Beaumont Health Vitreoretinal Disease & Surgery  
Vitreoretinal Surgery, Fellowship
- 07/2018-06/2021 University of Southern California, Roski Eye Institute, Los Angeles CA  
Ophthalmology Residency, Administrative Chief Resident
- 07/2017-06/2018 Emory University School of Medicine, Atlanta GA  
Transitional Year, Internship
- 07/2011-05/2017 Emory University School of Medicine, Atlanta GA  
Doctor of Medicine  
**Overall GPA:** 3.82/4.00
- 08/2007-05/2011 The University of Georgia, Honors Program, Athens, GA  
*Bachelor of Science*  
Summa Cum Laude with Highest Honors and CURO Research Scholar Distinction  
**Major:** Biological Sciences, Pre-medical  
**Science & Math GPA:** 3.98/4.00; **Overall GPA:** 3.94/4.00

## PUBLICATIONS

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### A. Published and Accepted research articles:

1. Park JG, Adrean SD, Begaj T, Capone Jr. A, Charles S, Chen S-N, Chou H-D, Cohen MN, Corona ST, Faia LJ, Garg SJ, Garretson BR, Gregori NZ, Haller JA, Houghton OM, Hsu J, Jo J, Kaiser RS, Lai C-C, Mahgoub MM, Mansoor M, Matoba R, Morizane Y, Nehemy MB, Raphaelian PV, Regillo CD, Ruby AJ, **Runner MM**, Sneed SR, Sohn EH, Spirn MJ, Vander JF, Wakabayashi T, Wolfe JD, Wykoff CC, Yonekawa Y, Yoon YH, Mahmoud TH. *Surgical Management of Full Thickness Macular Holes in Macular Telangiectasia Type 2. A Global Multicenter Study.* *Ophthalmology* (2023), doi: <https://doi.org/10.1016/j.ophtha.2023.08.025>.
2. **Runner MM**, Hua H, Michalak S, Shahlaee A, Lazzarini T, Yonekawa Y. Surgical pearls from the Vit Buckle Society. *Retina Specialist.* 07/14/2023. <https://bitly.ws/X3LJ>
3. Peng MG, Lee J, Ho W, Kim T, Yao P, Medvidovic S, Alas B, Wu V, **Runner MM**, Gokoffski KK. *AxonQuantifier: A semi-automated program for quantifying axonal density from whole-mounted optic nerves.* *J Neurosci Methods* 394:109895, 06/2023. PMID: [37315846](https://pubmed.ncbi.nlm.nih.gov/37315846/).
4. **Runner MM**, Williams GA. *The Effect of Biosimilars on Clinical Practice.* *Retina Today.* May/June 2023. <http://bit.ly/3NVjogM>
5. Park JG, Chen XD, Clontz M, Begaj T, **Runner MM**, Wolfe JD. *Coding of Geographic Atrophy and Exudative Age-related Macular Degeneration.* *Ophthalmol Retina* S2468-6530(23)00125-2, 03/2023. PMID: [36966949](https://pubmed.ncbi.nlm.nih.gov/36966949/).
6. **Runner MM**, *Looking Beyond the Tissue Box, the Art of Letting Go.* *J Gen Intern Med* 36(7):2147-2148, 04/2021. PMID: [33904032](https://pubmed.ncbi.nlm.nih.gov/33904032/).

7. McCracken DJ, Lovasik BP, McCracken CE, Frerich JM, **McDougal ME**, Ratcliff JJ, Barrow DL, Pradilla GD. *The Intracerebral Hemorrhage Score: A Self-Fulfilling Prophecy?* Neurosurgery 84(3): 741-748, 03/2019. PMID: [29762777](#).
8. Lovasik BP, McCracken DJ, McCracken CE, **McDougal ME**, Frerich JM, Samuels OB, and Pradilla GD. *The Effect of External Ventricular Drain Use in Intracerebral Hemorrhage.* World Neurosurgery 94: 309-318, 10/2016. PMID: [27436212](#).
9. Gutekunst CA, Tung JK, **McDougal ME**, Gross RE. *C3 transferase gene therapy for continuous conditional RhoA inhibition.* Neuroscience 339: 308-318, 12/2016. PMID: [27746349](#).
10. Bobilev AM, **McDougal ME**, Taylor WL, Geisert EE, Netland PA, Lauderdale JD. *Assessment of PAX6 alleles in 66 families with aniridia.* Clin Genet 89(6): 669-677, 07/2016. PMID: [26661695](#).
11. Gross RE, **McDougal ME**. *Technological Advances in the Surgical Treatment of Movement Disorders (Invited Review).* Curr Neurol Neurosci Rep 13(8): 371, 08/2013. PMID: [23812894](#).
12. **McDougal ME**. *Investigating aniridia, a human genetic eye disorder.* Center for Undergraduate Research Opportunities, Univ of Georgia. (Honors Thesis) p. ix, 41 leaves. 05/2010. Retrieved from: <http://dbs.galib.uga.edu/cgi->

#### **B. Under Review:**

1. **Runner MM**. Trials to Know in the Geographic Atrophy Pipeline. Retina Today. 2023.
2. **Runner MM**, Gutekunst CA, Gross RE. *Neuroprotection and Optic Nerve Regeneration with C3 Transferase Gene Therapy.* Molecular Vision. 2022. Manuscript #: 2017MOLVIS0033.
3. Begaj T, Jeong D, Park JG, **Runner MM**, Williams GA. *Long Term Use of Anti-Vascular Endothelial Growth Factor Therapy for Neovascular Age-Related Macular Degeneration.* RETINA The Journal of Retinal and Vitreous Diseases. 2023. Manuscript #: ab2b324075054a19

#### **C. In Preparation:**

1. Trese MGJ, Scoles DH, **Runner MM**, Wolfe JD, Folberg R, Hassan T. *"Bucket Handle Epiretinal Membrane" Signifying Post-Endophthalmitis Internal Limiting Membrane Separation and Fibrous Proliferation.* Formatted for submission to Retina - Clinical Histopathologic Correlation. 2023.
2. Begaj T, Jeong D, Park JG, **Runner MM**, Williams GA. *Long term use of Anti-Vascular Endothelial Growth Factor Therapy for neovascular Age Related Macular Degeneration.* Formatted for submission to Journal of VitreoRetinal Diseases.
3. **Runner MM**, Liu T, Mahmoud TM, Randhawa S, Williams GA, Faia LJ. *Intravitreal methotrexate injection after silicone oil removal to prevent proliferative vitreoretinopathy related redetachment.* Formatted for submission to Ophthalmology Retina.
4. **Runner MM**, Begaj T, Scoles DH, Trese MGJ, Park JG, Drenser KA, Williams GA, Randhawa S, Ruby AJ. *Atypical Series of Post-Injection Endophthalmitis Caused by Pseudomonas aeruginosa.* Formatted for submission to Retinal Cases and Brief Reports.

#### **D. Published abstracts:**

1. Trese MGJ, Scoles DH, **Runner MM**, Wolfe JD, Folberg R, Hassan T. *"Estimating the Rate of Bullous Internal Limiting Membrane Separation After Endophthalmitis.* Invest. Ophthalmol. Vis. Sci.. 2023; 64, [3927](#).
2. Desler C, Saleem Z. **Runner MM**. *Flashes, floaters, and retinal detachment content on social media: a cross-sectional analysis of trending content.* Invest. Ophthalmol. Vis. Sci.. 2023; 64, [4562](#).
3. **Runner MM**, Begaj T, Scoles DH, Trese MGJ, Park JG, Drenser KA, Williams GA, Randhawa S, Ruby AJ. *Outbreak of Acute and Subacute Post-Injection Endophthalmitis caused by Pseudomonas aeruginosa.* Invest. Ophthalmol. Vis. Sci.. 2022; 63(7):[710-F0235](#).

4. **Runner MM**, Toy BC, Moshfeghi AA, Ameri H, Rao NA. *Concurrent Acute Retinal Necrosis and Ocular Syphilis*. *Invest. Ophthalmol. Vis. Sci.*. 2021; 62(8):[1440](#).
5. Shah SN, **Runner MM**, Chaudhry IA, Chevez-Barríos P, Narala R, Moshfeghi AA, Burnstine MA, Hamill E. *Uveal Lymphoma with Concurrent Endogenous Bacterial Endophthalmitis*. *Invest. Ophthalmol. Vis. Sci.*. 2021; 62(8):[1370](#).
6. **Runner MM**, Gutekunst CA, Gross RE. *Promising New Gene Therapy for Optic Nerve Regeneration and Neuroprotection*. *Invest. Ophthalmol. Vis. Sci.*. 07/2019; 60(9):[2251](#).
7. **Runner MM**, Gutekunst CA, Jones JK, Gross RE. *Novel Neuroregenerative Gene Therapy for Glaucoma*. *American Academy of Ophthalmology* ([PA063](#)). American Academy of Ophthalmology Archives.10/2018.
8. **McDougal ME**, Gutekunst CA, Gross RE. *C3 Transferase Gene Therapy for Neuroprotection and Optic Nerve Regeneration*. *Invest. Ophthalmol. Vis. Sci.*. 2017;58(8):[1570](#).
9. Gutekunst CA, **McDougal ME**, Gross RE. *C3 Transferase Gene Therapy for Neuroprotection and Axon Regrowth* ([611.28/FF3](#)). Society for Neuroscience. November 12-16, 2016.
10. McCracken DJ, Lovasik BP, McCracken CE, **McDougal ME**, Frerich JM, Samuels OB, Pradilla GD. *Benefit of External Ventricular Drain Utilization in Intracerebral Hemorrhage* ([AA-34577](#)). American Association of Neurological Surgeons (AANS) Annual Scientific Meeting. May 1, 2016.
11. McCracken DJ, Lovasik BP, McCracken CE, Frerich JM, **McDougal ME**, Samuels OB, Barrow DL, Pradilla GD. *Outcomes of High Grade Cerebellar Hemorrhage Following Neurosurgical Intervention* ([AA-34617](#)). American Association of Neurological Surgeons (AANS) Annual Scientific Meeting. May 1, 2016.
12. **McDougal ME**, Gutekunst CA, LaRiviere MJ, Jones JK, Gross RE. *Optic Nerve Regeneration with C3 Transferase Gene Therapy* ([PAS023](#)). American Academy of Ophthalmology Archives. 11/2015.
13. LaRiviere MJ, **McDougal ME**, Wang AL, Syrop SL, Reice R, Lockhart A, Nguyen D, Gutekunst CA, Crocker IR, Gross RE. *Gene Therapy for Neuroprotection and Axon Regeneration Using a RhoA-Inhibitory C3 Transferase Transgene Adeno-Associated Viral Vector in a Rodent Optic Nerve Crush Model*. *International Journal of Radiation Oncology, Biology, Physics*. 10/2015; 93(3): E523 - E524. <http://dx.doi.org/10.1016/j.ijrobp.2015.07.1886>.
14. McCracken DJ, Lovasik BP, **McDougal ME**, McCracken CE, Pradilla GD. *The Ich Score: A Self-fulfilling Prophecy?* ([Abstract T MP66](#)). *Stroke*, 02/2015. 46(Suppl 1).
15. McCracken DJ, Lovasik BP, **McDougal ME**, McCracken CE, Pradilla GD. *Predicting Mortality in ICH: Redefining the ICH Score* ([Abstract W P321](#)). *Stroke*, 02/2015. 46(Suppl 1).
16. McCracken DJ, Lovasik BP, **McDougal ME**, Pradilla GD. *ICH Score: A Self-fulfilling Prophecy?*. American Association of Neurological Surgeons (AANS) /CNS Joint Cerebrovascular Section, 2015. <http://cv2015.cns.org/posterbrowser.aspx>
17. McCracken DJ, Lovasik BP, **McDougal ME**, McCracken CE, and Pradilla GD. *The Ich Score: A Self-fulfilling Prophecy?* Georgia Neurosurgical Society Annual Fall Meeting. December 6-7, 2014.
18. **McDougal ME**, Lauderdale JD. *PAX6 Mutation Screen*. University of Georgia Honors Program, Center for Undergraduate Research Opportunities (CURO) Symposium Book of Abstracts, March 29, 2010. <http://dbs.galib.uga.edu>

## ORAL RESENTATIONS / POSTERS

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1. **Runner MM**, Drenser KA, Capone A. *Surgical Approach to Stage 5 Pediatric Retinal Detachment*. American Society of Retina Specialists (ASRS). Seattle, WA. July 31, 2023. (Oral Presentation)
2. Trese MGJ, Scoles DH, **Runner MM**, Wolfe JD, Folberg R, Hassan T. *“Estimating the Rate of Bullous Internal Limiting Membrane Separation After Endophthalmitis*. The Association for Research in Vision and Ophthalmology (ARVO). New Orleans. June 2023. (Poster Presentation)
3. Desler C, Saleem Z. **Runner MM**. *Flashes, floaters, and retinal detachment content on social media: a cross-sectional analysis of trending content*. The Association for Research in Vision and Ophthalmology (ARVO). New Orleans. June 2023. (Poster Presentation)

4. **Runner MM**, Drenser KA, Capone A. *Surgical Approach to Stage 5 Pediatric Retinal Detachment*. Vit-Buckle Society Fellows' Foray. Las Vegas, NV. April 13, 2023. (Podium Presentation)
5. Begai T, Juliano JD, **Runner MM**, Randhawa S, Weiner AJ, Faia LJ. *Combination Therapy of Intravitreal Ganciclovir and Foscarnet with Oral Antiviral Therapy for Non-Cytomegalovirus Related Viral Retinitis*. American Uveitis Society. Park City, UT. January 14, 2023. (Podium Presentation)
6. **Runner MM**, Hua H, Light J. *Fellows Fighting at the Forum: Scleral Buckle Elements*. 23<sup>rd</sup> Annual Retina Fellows Forum. Chicago, IL. December 3, 2022 (Podium Presentation)
7. **Runner MM**, Begai T, Scoles DH, Trese MGJ, Park JG, Drenser KA, Williams GA, Randhawa S, Ruby AJ. *Outbreak of Acute and Subacute Post-Injection Endophthalmitis caused by Pseudomonas aeruginosa*. The Association for Research in Vision and Ophthalmology (ARVO). Denver, CO. May 1, 2022. (Poster Presentation)
8. **Runner MM**, Toy BC, Moshfeghi AA, Ameri H, Rao NA. *Concurrent Acute Retinal Necrosis and Ocular Syphilis*. The Association for Research in Vision and Ophthalmology (ARVO). May 2, 2021. (Virtual Poster Presentation)
9. Shah SN, **Runner MM**, Chaudhry IA, Chevez-Barrios P, Narala R, Moshfeghi AA, Burnstine MA, Hamill EB. *Uveal Lymphoma with Concurrent Endogenous Bacterial Endophthalmitis*. The Association for Research in Vision and Ophthalmology (ARVO). May 2, 2021. (Virtual Poster Presentation)
10. **Runner MM**, Gutekunst CA, Gross RE. *Gene-Therapy RhoA/ROCK inhibition of Retinal Ganglion Cells*. Women in Ophthalmology Summer Symposium. August 21-23, 2020. (Virtual Poster Presentation)
11. **Runner MM**, Chang MY, Borchert MS, Patel V. *Approach to Papilledema in Pediatrics*. USC Roski Eye Institute Pediatric Ophthalmology Specialty Lecture Series. Continued Medical Education (CME). Los Angeles, CA. September 21, 2019. (Podium Presentation)
12. **Runner MM**, Burnstine MA. *Endogenous Endophthalmitis with Ocular Lymphoma*. Eyesthetica Oculofacial Plastic Surgery Update. Los Angeles, CA. March 2, 2019. (Podium Presentation)
13. **Runner MM**, Gutekunst CA, Gross RE. *Promising New Gene Therapy for Optic Nerve Regeneration and Neuroprotection*. The Association for Research in Vision and Ophthalmology (ARVO). Vancouver, Canada. April 29, 2019. (Podium Presentation at *Neuroprotection* session)
14. **Runner MM**, Gutekunst CA, Gross RE. *Promising New Gene Therapy for Optic Nerve Regeneration and Neuroprotection*. University of Southern California Vision Science Research 2019 Pre-ARVO Event. Los Angeles, CA. April 22, 2019 (Podium Presentation)
15. **Runner MM**, Gutekunst CA, Gross RE. *Novel Neuroregenerative Gene Therapy for Glaucoma*. American Academy of Ophthalmology. Chicago, Illinois. November 29, 2018. (Podium Presentation at Original Glaucoma Paper Session)
16. **Runner MM**. *Color Vision*. Transitional Year BST Mode Teaching, Emory University School of Medicine. Atlanta, Georgia. March 22, 2018. (Podium Presentation)
17. **McDougal ME**, Gutekunst CA, Gross RE. *C3 Transferase Gene Therapy for Neuroprotection and Optic Nerve Regeneration*. The Association for Research in Vision and Ophthalmology (ARVO). Baltimore, MD. May 8, 2017. (Podium Presentation: Gene Therapies Paper session)
18. **McDougal ME**, Gutekunst CA, Gross RE. *C3 Transferase Gene Therapy for Neuroprotection and Axon Regrowth*. Emory School of Medicine Discovery Research Day. Atlanta, GA. April 20<sup>th</sup>, 2017. (Paper, Podium Presentation)

19. **McDougal ME**, Vu C, Patel B, Maness C. Take Your Health to New Heights, Take the Stairs. Emory University Social Medicine Forum. Atlanta, GA. March 30<sup>th</sup>, 2017. (Poster, Podium Presentation)
20. **McDougal ME**, Gutekunst CA, Gross RE. *C3 Transferase Gene Therapy for Neuroprotection and Axon Regrowth*. Emory Brain Health Center. Atlanta, GA. March 11, 2017. (Poster Presentation)
21. Gutekunst CA, **McDougal ME**, Gross RE. *C3 Transferase Gene Therapy for Neuroprotection and Axon Regrowth*. Society for Neuroscience. San Diego, CA. November 12-16, 2016. (Poster Presentation)
22. Lovasik BP, McCracken DJ, McCracken CE, Frerich JM, **McDougal ME**, Samuels OB, Pradilla GD. *External Ventricular Drain Utilization in Intracerebral Hemorrhage: a Propensity Score and Outcome Analysis*. American Association of Neurological Surgeons (AANS). Chicago, Illinois. April 30 – May 4, 2016. (Poster Presentation).
23. McCracken DJ, Lovasik BP, McCracken CE, Frerich JM, **McDougal ME**, Samuels OB, Pradilla GD. *Outcomes of High-Grade Cerebellar Hemorrhage Following Neurosurgical Intervention*. American Association of Neurological Surgeons (AANS). Chicago, Illinois. April 30-May 4, 2016. (Poster Presentation).
24. **McDougal ME**, Gutekunst CA, Gross RE. *Neuroprotection and Optic Nerve Regeneration with C3 Transferase Gene Therapy*. Emory University, Research Department of Ophthalmology. Atlanta, GA. January 12, 2016. (Podium Presentation).
25. **McDougal ME**, Gutekunst CA, LaRiviere MJ, Jones JK, Gross RE. *Optic Nerve Regeneration with C3 Transferase Gene Therapy*. American Academy of Ophthalmology. Las Vegas, Nevada. November 14-17, 2015. (Podium Presentation at Original Glaucoma Paper Session)
26. LaRiviere MJ, **McDougal ME**, Wang AL, Syrop SL, Reice R, Lockhart A, Nguyen D, Gutekunst CA, Crocker IR, Gross RE. *Gene Therapy for Neuroprotection and Axon Regeneration Using a RhoA-Inhibitory C3 Transferase Transgene Adeno-Associated Viral Vector in a Rodent Optic Nerve Crush Model*. The American Society for Radiation Oncology (ASTRO), San Antonio, TX. October 18-21, 2015. (Poster Presentation).
27. LaRiviere MJ, **McDougal ME**, Gutekunst CA, Gross RE. *Gene Therapy for Axon Regeneration Using a RhoA-Inhibitory C3 Transferase Transgene Adeno-Associated Viral Vector in a Rodent Optic Nerve Crush Model*. Emory University School of Medicine Discovery Research Day. Atlanta, GA. April 23, 2015. (Podium Presentation).
28. LaRiviere MJ, **McDougal ME**, Gutekunst CA, Gross RE. *Gene Therapy for Axon Regeneration Using a RhoA-Inhibitory C3 Transferase Transgene Adeno-Associated Viral Vector in a Rodent Optic Nerve Crush Model*. Emory University School of Medicine Discovery Research Day. Atlanta, GA. April 23, 2015. (Poster Presentation).
29. McCracken DJ, Lovasik BP, **McDougal ME**, Pradilla GD. *ICH Score: A Self-fulfilling Prophecy?* American Association of Neurological Surgeons (AANS) /CNS Joint Cerebrovascular Section. Nashville, Tennessee. February 9-10, 2015. (Oral Presentation).
30. McCracken DJ, Lovasik BP, **McDougal ME**, Pradilla GD. *ICH Score: A Self-fulfilling Prophecy?* International Stroke Conference. Nashville, Tennessee. February 11-13, 2015. (Poster Presentation).
31. McCracken DJ, Lovasik BP, **McDougal ME**, McCracken CE, Pradilla GD. *Predicting Mortality in ICH: Redefining the ICH Score*. International Stroke Conference. Nashville, Tennessee. February 11-13, 2015. (Poster Presentation).

32. McCracken DJ, Lovasik BP, **McDougal ME**, Pradilla GD. *ICH Score: A Self-fulfilling Prophecy?* Georgia Neurosurgical Society Annual Fall Meeting. Greensboro, Georgia. December 6-7, 2014. (Oral Presentation).
33. **McDougal ME**, Gutekunst CA, LaRiviere MJ, Wang AW, Syrop SL, Gross RE. *Optic Nerve Regeneration with C3 Transferase Gene Therapy*. Southeastern Medical Scientist Symposium. Atlanta, GA. August 23, 2014. (Poster Presentation).
34. **McDougal ME**, Gutekunst CA, Gross GE. *C3 Transferase Gene Therapy for Optic Nerve Regeneration and Retinal Ganglion Cell Survival*. Emory University School of Medicine, Translational Neuroengineering Laboratory. Atlanta, GA. June 17, 2014. (Oral Presentation).
35. Greene S, **McDougal ME**, Gutekunst CA, Gross RE. *Analysis of experimental parameters for Optic Nerve Crush Experiments*. Emory University Undergraduate Research Symposium. Atlanta, GA. April 22, 2014. (Poster Presentation).
36. Bobilev AM, Hamm JP, **McDougal ME**, Oliver WT, McDowell JE, Clementz BA, Lauderdale JD. *Elucidating PAX6 mutations and auditory processing abnormalities in classical aniridia*. Wellcome Trust conference: Genomics of Rare Disorders. Cambridge, UK. March 5-7, 2014. (Poster Presentation).
37. **McDougal ME**. *The Development of Parkinson's disease*. Wesley Woods Senior University Fall Health Lecture series. Atlanta, GA. December 10, 2013. (Podium presentation).
38. Lauderdale JD, Bobilev AM, **McDougal ME**, Taylor WL, Geisert EE, Netland PA. *Genetics and PAX6*. Aniridia Foundation International (AFI) "Make a Miracle" conference. University of Virginia, Department of Ophthalmology. Charlottesville, VA. July 31 – August 4, 2013. (Podium Presentation).
39. Lauderdale JD, Bobilev AM, **McDougal ME**, Taylor WL, Geisert EE, Netland PA. *Updated Findings from the 2011 meeting*. Aniridia Foundation International (AFI) "Make a Miracle" conference. University of Virginia, Department of Ophthalmology. Charlottesville, VA. July 31 – August 4, 2013. (Podium Presentation).
40. Lauderdale JD, **McDougal ME**, Taylor WL, Geisert EE, Netland PA. *Summary Data for PAX6 Mutation Testing*. Aniridia Foundation International (AFI) "Make a Miracle" conference. University of Georgia, Athens, GA. July 13-17, 2011. (Podium Presentation)
41. **McDougal ME**, Lauderdale JD. *Investigating Aniridia, a Human Genetic Eye Disorder*. University of Georgia Honors Program, Department of Cellular Biology. Athens, GA. May 4, 2010. (Oral Defense of Dissertation).
42. **McDougal ME**, Lauderdale JD. *Welcome to Aniridia, The World of Great Light*. University of Georgia Honors Program, Center for Undergraduate Research Opportunities (CURO) Symposium. Athens, GA. March 29, 2010. (Podium Presentation).
43. **McDougal ME**, Lauderdale JD. *PAX6 Mutational Screen*. University of Georgia Honors Program, Center for Undergraduate Research Opportunities (CURO) Symposium. March 29, 2010. (Thesis Roundtable Presentation).
44. Lauderdale JD, **McDougal ME**, Taylor WL, Geisert EE, Netland PA. *New Insights into Aniridia*. Aniridia Foundation International (AFI) "Make a Miracle" Low Vision Conference. Chicago, IL. July 29 – August 2, 2009. (Oral Presentation).

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## CONSULTING

12/2022

Allergan, AbbVie Inc.

**HONORS / AWARDS / RECOGNITION / GRANTS**

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**Fellowship Award.** Sponsored by Retina Society as an AAO Advocacy Ambassador at the Mid-Year Forum. Washington, D.C. April 19-22, 2023.

**Fellows' Foray Grant Award.** Vit-Buckle Society (VBS). Las Vegas, NV. April 13, 2023.  
- one of eight vitreoretinal fellows selected to present at VBS Fellows' Foray

**Paper of the Year Award - Neurotrauma and Critical Care.** *The Intracerebral Hemorrhage Score: A Self-Fulfilling Prophecy?*. Congress of Neurological Surgeons and NEUROSURGERY® San Francisco, California, October 19-23, 2019.

- annual award given to the most impactful papers published in Neurosurgery from July 2018 to May 2019

**Retina Research Foundation / Joseph M. and Eula C. Lawrence Travel Grant Award.** ARVO Foundation for Eye Research award to attend and present at the 2019 ARVO Annual Meeting

**ARVO Oral Presentation Award.** USC Roski Eye Institute Annual Pre-ARVO Event Paper Presentation Award for top papers. April 22, 2019.

**Fellowship Award.** Named a *Starr E. Shulman, MPA Fellow* by the California Academy of Eye Physicians and Surgeons (CAEPS) Executive Board for the AAO's Advocacy Ambassador Program. Mid-Year Forum. Washington, D.C. April 10-13, 2019.

**National Eye Institute (NEI) Travel Grant Award.** ARVO Foundation for Eye Research award to attend and present at the 2017 ARVO Annual Meeting.

**NIH R03 Grant Award.** *C3 Transferase Gene Therapy for CNS Axon Regeneration*. #R03NS091699. Emory University School of Medicine. Total amount: \$156,000. 2015-2017. Recipients of grant: Gutekunst CA, McDougal ME, Gross RE (PI).

**Top Discovery Research Paper.** *C3 Transferase Gene Therapy for Neuroprotection and Axon Regrowth*. Emory University Medical Student Research Committee. Atlanta, GA. April 20<sup>th</sup>, 2017.

- one of eight medical students selected from the graduating class of 2017 for outstanding medical student research

Interviewed for article in [Ophthalmology Times](#) entitled, *Gene Therapy Shows Promise for Regenerating Retinal Ganglion Cells*, by journalist Laird Harrison. [Pending primary manuscript publication]

**James B. Whitehead Scholarship.** Scholarship awarded to a fourth-year medical student pursuing a career in a surgical subspecialty. *Emory University School of Medicine*, Atlanta, GA. 2016-2017.

*Neuroprotection and Optic Nerve Regeneration with C3 Transferase* Podium Presentation was featured on [Ophthalmology Web](#) as one of the [Highlights from the 2015 American Academy of Ophthalmology Meeting](#). Neil J. Friedman, MD, 2015.

**Intellectual Property Protection.** *A Neuroprotective and Neural Regenerative Treatment for Glaucoma and Traumatic Optic Nerve Injury Using C3 Transferase Gene-Therapy*. Tech ID #16047. Emory University Office of Technology Transfer, filed 12/2015.

**Best of 2015 Abstracts Award.** International Stroke Conference. *The ICH Score: A Self-Fulfilling Prophecy?*. American Heart Association, 2015.

**Medical Student Summer Research Fellowship (MSSRF).** *Neurosurgery Research and Education Foundation (NREF) and American Association of Neurological Surgeons (AANS).* 2014. Project Title: C3 Transferase Gene Therapy for Axon Regeneration - one of twenty medical students in North America selected for the MSSRF.

**Emory University Research Committee Grant Award.** *C3 Transferase Gene Therapy for Optic Nerve Injury.* Total amount: \$30,000. Co-Awardees: Gutekunst CA, McDougal ME, Gross RE (PI). 2014.

**Amy Chappell Medical Scholarship,** *Emory University School of Medicine, Atlanta, GA.* 2011-2012.

**Summa Cum Laude with Highest Honors.** *University of Georgia, Honors Program.* Athens, GA. 2011

**Undergraduate Research Scholar Distinction.** *University of Georgia, Center for Undergraduate Research.* Athens, GA. 2010.

- award for outstanding honors undergraduate research and thesis defense

**Phi Mu Scholar Award.** *Phi Mu Sorority, Alpha Alpha Chapter.* Athens, GA. 2010 & 2011.

- annual award given to the member of the Phi Mu Sorority with the highest cumulative GPA

**Jim Andrews Family Foundation Scholarship.** *College of Agriculture and Environmental Sciences, University of Georgia.* Athens, GA. 2010-2011.

**Alpha Epsilon Delta Pre-Medical Honors Society.** *Georgia Alpha Chapter, University of Georgia.* Athens, GA. 2009-2011.

**Presidential Scholar** (4.00 GPA). *University of Georgia.* Athens, GA. 2008-2011.

**Top 5% of class.** *University of Georgia Honor's Day Program.* Athens, GA. 2008-2011.

**Order of Omega Honors Society.** *University of Georgia.* Athens, GA. 2008-2011. – awarded to top 3% of students with outstanding interfraternity contributions and leadership

**Honors Program,** *University of Georgia.* Athens, GA. 2008-2011.

**Outstanding Leader of the Freshman Class.** *Phi Mu Sorority, Alpha Alpha Chapter.* Athens, GA. 2008.

**Helping Outstanding Pupils Educationally Scholarship.** Full four-year scholarship to attend *University of Georgia, Honors Program.* Athens, GA. 2007-2011.

## **LEADERSHIP**

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**Ambassador.** Advocacy Ambassador Program. American Academy of Ophthalmology (AAO) - Mid-Year Forum. Washington, D.C. April 19-22, 2023.

**Administrative Chief Resident.** USC Ophthalmology Residency Program. 2020-2021.

*Co-Founder.* **Women in Ophthalmology at USC Roski Eye Institute** – student/resident/fellow/attending group that works to further enhance and improve the professional environment for women ophthalmologists.

**Ambassador.** Advocacy Ambassador Program. American Academy of Ophthalmology (AAO) - Mid-Year Forum. Washington, D.C. April 10-13, 2019.



*Director of Education. Ophthalmology Interest Group (OIG)*, Emory University School of Medicine, 2016-2017.

*Upperclassman mentor, Ophthalmology Interest Group*, Emory University School of Medicine, 2016-2017.  
mentor to first and second year medical student interested in pursuing a career in ophthalmology

*Upperclassman Advisory Board. Neurosurgery Interest Group*, Emory University School of Medicine, 2013-2015.

*President. Neurosurgery Interest Group*, Emory University School of Medicine, 2012-2013.

*Treasurer. Neurosurgery Interest Group*, Emory University School of Medicine, 2011-2012.

*Counselor, Muscular Dystrophy Association (MDA)*. Camp Twin Lakes, Rutledge, GA 2012.

- Provided the around-the-clock care, close supervision and medical attention for children ages 6-18 with neuromuscular disorders at overnight summer camp.

*Scholarship and Academic Excellence Chairman. Phi Mu Sorority*, Alpha Alpha Chapter. 2009-2010.

*Intramural Sports Chair. Phi Mu Sorority*, Alpha Alpha Chapter. Athens, GA. 2007-2009.

*Hospital Relations Committee. UGA Miracle*, University of Georgia. Athens, GA. 2007-2008.

- UGA Miracle is a student-run philanthropy that raises money for the Comprehensive Inpatient Rehabilitation Unit at Children's Healthcare of Atlanta.

*Ambassador. Promote Africa*, University of Georgia. Athens, GA. 2010-2011.

- a student-run philanthropy that organizes programs and initiatives to support socioeconomic development in disadvantaged African communities

## TEACHING

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**Instructor**, *Introduction to the Basic Eye Exam and Direct Ophthalmoscopy*. Medical Student Skills Workshop, University of Southern California, Los Angeles, CA. May 10-13, 2021.

**Reviewer**. BCSC Resident/Fellow Review Project. Section 6, Pediatric Ophthalmology and Strabismus. July 2020.

**Lecturer**. Runner, MM. *How to Be Successful in Medical School*. Teen Innovation Entrepreneurship Summer Program (TIES), University of Southern California, Los Angeles, CA. July 19, 2019.

**Instructor**, *The Basic Eye Exam*, M1 Neurology Lecture Series. Emory University School of Medicine. September 21-22, 2016.

- Led a 2 day lecture series on the basic eye exam to first year medical students

**Director of Education**, Ophthalmology Interest Group, Emory University School of Medicine. 2016-2017.

- Liaison between ophthalmology faculty/residents and medical students

**Panel Member**. Neurosurgery and Medical Panel: McDougal ME, Laxpati NG, Miller BA, Fine MI. *Pursuing a Career in Medicine*. High School Student Educational Night. Haiti Neurosurgery Initiative, Inc. (HNI). Druid Hills High School, Atlanta, GA. March 31, 2016.

**Invited Lecturer.** McDougal ME, Kerchberger JM. *How to Be Successful in Medical School*. Emory University School of Medicine, M1 Orientation Lecture, Lisa Bernstein MD Small Group Session, Atlanta, GA. August 21, 2015.

**Upperclassman mentor**, Ophthalmology Interest Group. 2015-2017.

- mentor to first and second year medical student interested in ophthalmology.

**M3 Student Volunteer**, “*Advanced Bedside Teaching*”, *M4 Capstone Elective*. Emory University School of Medicine. Atlanta, GA. April 2014.

**Invited Lecturer.** McDougal, ME, Kasturia S. *What to Carry in your White Coat*. Emory University School of Medicine, M3 Orientation Lecture, Lisa Bernstein MD Small Group Session. Atlanta, GA. February 25, 2014.

**Laboratory trainer**, Translational Neuroengineering laboratory, Emory University School of Medicine, Department of Neurosurgery. 2013-2014.

- dedicated time educating undergraduates, the summer scholars research program, and the Institute on Neuroscience (ION/TEACH) for high school students and teachers on microsurgery, immunohistochemistry and microscopy

**Educational Health Lecturer**, *Wesley Woods Senior University Fall Health Lecture series*, Atlanta, GA, 2013. December, 10, 2013.

- Led lecture series on end-of-life care, healthcare advocates, and caregivers

**Science Student-Athlete tutor**, *University of Georgia, Athletics Department*, Rankin M. Smith, Sr. Student-Athlete Academic Center. Athens, GA. 2009-2010.

## COMMUNITY SERVICE AND EXTRACURRICULARS

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**Community Eye Screenings**, *Ophthalmology Interest Group*, Emory University School of Medicine. Atlanta, GA. 2013-2017.

- organized and participated in several student-run, free ocular health screening events for underserved patients. Multiple, all-day screening events were held at the following locations throughout the year:
  - 1) **Lead Volunteer**, Community Eye Screening. *Clarkston Community Health Center*, Clarkston, GA. 2016-2017.
  - 2) **Lead Volunteer**, Ocular Health Screening. *Congressman David Scott's Jonesboro Health Fair*, Jonesboro, GA. 2016.
  - 3) **Lead Volunteer**, Eye Screening Event. *Hispanic Health Fair*, Lilburn, GA. 2016.
  - 4) **Volunteer**, Eye Clinic. *HEALing Community Center*, West Atlanta, GA, 2014-2015.
  - 5) **Lead Volunteer / Volunteer**, Eye Screening Event. *Homeless Veterans Stand Down*, Atlanta Veterans Affairs Medical Center, Atlanta, GA. 2013-2016.

**Volunteer.** *ReSpectacle*, Atlanta, GA, 2016-2017

- Nonprofit company that facilitates the redistribution of used eyeglasses to underserved communities worldwide.
- Assist in the collection of used glasses, reading lens refraction prescription with lensometer, and inputting processed inventory into online database

**M2 Elective in Functional Neurosurgery**, *Emory University School of Medicine*. 2012-2013.

- Elective in Functional Neurosurgery, under the direct supervision of Dr. Robert E. Gross, director of Functional, Stereotactic and Epilepsy Surgery Division.

**Volunteer**, *Open Door Community Medical Clinic* and *Harriet Tubman Foot Clinic Volunteer*, Atlanta, GA 2011-2014.

- Weekly medical clinic of the Open Door Community, a residential community that provides a home, meals, and free medical clinics to Atlanta's homeless

**Captain**, *Emory Intramural Sports*, 2011-2017.

- Active participant in co-ed soccer, flag football, basketball, and softball
- 2014 Co-ed Soccer Champions, 2013 Co-ed Flag Football Runner up

**Member**, *Ophthalmology Interest Group*, Emory University School of Medicine. 2013-present.

**Member**, *Aspiring Surgeons*, Emory University School of Medicine, 2011-present.

**Captain**, *Atlanta Silverbacks Soccer League*. 2012-2014.

- 2012 League Champions, 2012 Undefeated season

**Counselor**, *Muscular Dystrophy Association*. Camp Twin Lakes, Rutledge, GA. 2012.

**Volunteer**, *Aniridia and Low Vision Research Symposium*, Georgia Center for Continuing Education and Conference Center. Athens, GA. 2011

**Volunteer**, *Aniridia Foundation International "Make a Miracle" Medical Conference*. Georgia Center for Continuing Education and Conference Center. Athens, GA. 2011.

**Volunteer**, *Georgia Neurological Surgery and St. Mary's Hospital*, Athens, GA. 2010.

**Member**, *Medicine in Literature, UGA Honors Book Club*, University of Georgia Honors Program. Athens, GA. 2010-2011.

**Member**. *HIV Experience Resources Organization (HERO)*, University of Georgia. 2007-2011.

- student-run organization that raises money to support the 12,000 children in Georgia affected by HIV/AIDS.

**Volunteer**, *UGA Miracle*, 2007-2011.

- Benefits Children's Healthcare of Atlanta.

**Volunteer**, *Athens PBJs*, Athens, GA. 2008-2009.

- Prepared brownbag meals for the homeless in Athens.

**Students for the American Red Cross**. Athens, GA. 2008-2009

- Organized and promoted blood drives and bone marrow registry sign up (Be The Match®) across campus.

**Volunteer**, *Children's Miracle Network Team*, University of Georgia. Athens, GA. 2007-2011.

**Volunteer**. *Habitat for Humanity*. Atlanta, GA. 2005-2016.

## **EMPLOYMENT**

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2021 – 2023 **Physician – Vitreoretinal Surgery Fellowship**

Associated Retinal Consultants PC  
39650 Orchard Hill Place Suite 200  
Novi, MI 48375

2018 – 2021 **Resident Physician – Ophthalmology**, Administrative Chief Resident  
University of Southern California, Roski Eye Institute, Los Angeles CA

- 2017- 2018 **Resident Physician - Transitional Year, Internship**  
Emory University School of Medicine, Atlanta GA
- 2015 – 2017 **Laboratory Assistant**  
Emory University School of Medicine, Department of Neurosurgery  
Woodruff Memorial Research Building, Translational Neuroengineering Laboratory  
Atlanta, GA  
Supervisors: Robert E. Gross, MD, PhD and Claire-Anne Gutekunst PhD  
During medical school, I was employed by the Robert E. Gross Translational Neuroengineering Laboratory, gaining approval for outside employment while in medical school.
- 2014 **Graduate Student Employee**  
Emory University School of Medicine, Department of Neurosurgery  
Woodruff Memorial Research Building, Translational Neuroengineering Laboratory  
Atlanta, GA  
Supervisors: Robert E. Gross, MD, PhD and Claire-Anne Gutekunst PhD.  
Salary support via the Medical Student Summer Research Fellowship (MSSRF) provided by American Association of Neurological Surgeons (AANS) and Neurosurgery Research and Education Foundation (NREF).
- 2009 – 2010 **Science Student-Athlete tutor**  
University of Georgia, Athletics Department  
Rankin M. Smith, Sr. Student-Athlete Academic Center  
Athens, GA  
Supervisor: Claire Foggin  
I spent four days a week tutoring over a dozen college student-athletes in general chemistry, organic chemistry, biochemistry, and genetics. Each tutoring session consisted of three to five students, as well as private one-on-one sessions upon request.
- 2008 **Waitress**  
The Tavern at Phipps  
Atlanta, GA  
Supervisor: Alex Zengotita
- 2007 **Waitress – Captain**  
J. Christopher's Restaurant  
Decatur, GA  
Supervisor: Shelly Fox
- 2004-2006 **Counselor / Watersports instructor**  
YMCA Camp High Harbour  
Lake Burton, GA  
Supervisor: Ken O'Kelley, Drew Hullinger, Jeremy Noffsinger  
I was responsible for the care of campers age 5 – 17 at overnight summer camp. Specifically, my responsibilities as watersports instructor included care and safety of all campers during boating activities and teaching multiple watersports. I am lifeguard and CPR certified and trained in driving and maintenance of all seven camp boats.

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### **Hobbies & Special Interests**

**Soccer:** Captain of division A club team (Inter Atlanta FC blues) and captain of St. Pius X Varsity soccer team. Awarded defensive player of the year 2006 and 2007. Continued to play soccer throughout college, medical school and residency for the Atlanta Silverbacks, intramural teams, and local club teams.

**Cross-Country Running:** Varsity Cross Country runner throughout high school. Throughout medical school and residency, I have continued to run in multiple races, marathons and half-marathons.

**Carpentry / Landscape design:** enjoy building furniture and landscape design. Numerous projects over the years include outdoor pond with cascading waterfall, reclaimed oak dining room table, custom lead-pipe and pine wood bookcase, and 3-tier rose and native azalea walk-way garden (featured on Druid Hills Tour of Homes and Gardens – Atlanta, GA).

**Videographer / Editor:** created / edited numerous short films for various events including - weddings, engagements, graduation, surgical and lab training videos. Particular interest in VHS tape conversion and restoration.

**Dog enthusiast:** proud owner of a rescued Yorkshire terrier. We placed 2<sup>nd</sup> for females in the Doggie Dash 5K.

**Watersports** – avid slalom skier, wakeboarder/surfer. Former watersports instructor and MasterCraft boating manager.