

Matthew A. Powers, M.D., M.B.A.

Curriculum Vitae

Contact Information

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CURRENT PRACTICE	North Bay Vitreoretinal Consultants - Vitreoretinal Surgeon and Specialist	<i>Santa Rosa, CA Sept 2020 – present</i>
GRADUATE MEDICAL EDUCATION	University of Colorado School of Medicine - Faculty Fellow (PGY 5-6) Vitreoretinal Diseases and Surgery Department of Ophthalmology	<i>Aurora, CO Jul 2018 – present</i>
	Stanford University School of Medicine - Resident Physician (PGY 2-4) Department of Ophthalmology	<i>Palo Alto, CA Jul 2015 – Jun 2018</i>
	Kaiser Permanente San Francisco - Resident Physician (PGY 1) Department of Internal Medicine	<i>San Francisco, CA Jul 2014 - Jul 2015</i>
UNDERGRADUATE MEDICAL EDUCATION	University of Colorado School of Medicine Doctor of Medicine (M.D.) Graduated <i>Alpha Omega Alpha</i>	<i>Aurora, CO 2009 - 2014</i>
	University of Colorado Graduate School of Business Master of Business Administration (M.B.A.), Healthcare	<i>Denver, CO 2012 - 2013</i>
UNDERGRADUATE EDUCATION	Boston University College of Arts and Sciences Bachelor of Arts (B.A.), Biology Dean's List 2004 - 2007 Graduated <i>Cum Laude</i>	<i>Boston, MA 2003 - 2007</i>
EDUCATION (NON-DEGREE SEEKING)	Stanford University School of Medicine & School of Engineering Biodesign: Innovation - Medical device design and commercialization	<i>Stanford, CA 2017</i>
	Harvard Extension School Regenerative medicine and stem cell biology	<i>Cambridge, MA 2008</i>
	The University of Auckland Biology and Maori studies	<i>Auckland, NZ 2007</i>
INTERNATIONAL ELECTIVES	Tilganga Eye Institute & Geta Eye Hospital International Ophthalmology - Small incision cataract surgery and vitreoretinal surgery	<i>Kathmandu, Nepal Mar – Apr 2018</i>
PROFESSIONAL EXPERIENCE	Dana-Farber Cancer Institute & Harvard Medical School - <i>Research Technician</i> Facilitated ongoing research by performing PCR, RT-PCR, Western blot, FACS, GFP assays, mouse colony maintenance, ELISA, histochemical tissue fixation and website maintenance.	<i>Boston, MA 2007 - 2009</i>
	Pharmaco (NZ) - <i>Corporate Pharmaceutical Intern</i> Performed many tasks in several sections of the company, including assisting sales team, executing market research, designing website, and authoring a business plan for an upcoming product.	<i>Auckland, NZ 2007</i>

	Aristotle Institute & Faulkner Hospital – Clinical Research Intern	<i>Watertown, MA</i>
	Collaborated on clinical neurological research by contacting patients, and by collecting, cataloging and statistically analyzing relevant data.	<i>2006</i>
	Boston University Educational Resource Center - Peer Tutor	<i>Boston, MA</i>
	Worked with students enrolled in general biology and organic chemistry to better understand in-course concepts and develop effective studying techniques	<i>2005 - 2007</i>
CERTIFICATION & LICENSURE	<i>Physician & Medical Doctor</i>	<i>Jun 2018</i>
	Colorado Medical Board DR.0060710, Exp 4/30/2021	
	<i>Physician & Surgeon</i>	<i>Feb 2017</i>
	Medical Board of California Certificate #A139016, Exp 2/26/2021	
	<i>Board Certified</i>	<i>Sep 2019</i>
	American Board of Ophthalmology ID# 35211, Certified on 9/21/2019	
HONORS & AWARDS	People’s Choice Award For Best Concept, Health Technology Showcase	<i>2017</i>
	Stanford Byers Center for Biodesign	
	Heed Ophthalmic Foundation Residents Retreat Invitee	<i>2017</i>
	Heed Ophthalmic Foundation	
	Alpha Omega Alpha Honor Medical Society	<i>2013</i>
	Elected senior year, University of Colorado School of Medicine	
	Medical School Admissions Committee Award	<i>2013</i>
	University of Colorado School of Medicine	
	Award for Academic Excellence, Phase II	<i>2011</i>
	University of Colorado School of Medicine	
	Award for Academic Excellence, Phase I	<i>2010</i>
	University of Colorado School of Medicine	
RESEARCH & ACADEMIC GRANTS	Stanford Biodesign Innovation Grant (\$10,000)	<i>2017</i>
	Stanford Byers Center for Biodesign	
PROFESSIONAL MEMBERSHIPS	American Academy of Ophthalmology (AAO), member in training	<i>2015 – present</i>
	American Society of Retina Specialists (ASRS), member in training	<i>2018 – present</i>
LEADERSHIP	Student Advisor, Advisory College Program	<i>2013 - 2014</i>
	University of Colorado School of Medicine	
	Class Treasurer	<i>2013</i>
	University Of Colorado School of Medicine, Class of 2014	
	Medical Student Council Class Representative	<i>2011 - 2012</i>
	University of Colorado School of Medicine, Class of 2013	
	Class Historian and Photographer	<i>2009 - 2012</i>

University of Colorado School of Medicine, Class of 2013

Course Representative, Infectious Disease Block 2010
University of Colorado School of Medicine, Class of 2013

COMMUNITY SERVICE & VOLUNTEER ACTIVITIES **Preceptor, Ophthalmology** 2017
Stanford Medicine Pacific Free Clinic

Admissions Committee Member 2010 - 2014
University of Colorado School of Medicine

Fundraiser & Rider 2013
Ella Jewell Foundation, Manhattan to Montauk Ride

Emergency Department Volunteer 2010
GF Jooste Hospital, Cape Town, South Africa

Organizer & Photographer 2010
Donor Memorial 5K Run, University of Colorado School of Medicine

Student Representative 2010
AMA Lobby Day, Washington DC

Fundraiser & Runner 2009
Dana-Farber Cancer Institute, Boston Marathon Challenge

Emergency Department Volunteer 2007 - 2009
Massachusetts General Hospital

PEER-REVIEWED PUBLICATIONS (ACCEPTED & SUBMITTED) Zubair T, Callaway NF, Shields RA, **Powers MA**, Vail D, Tang PH, Ji MH, Moshfeghi DM. Von Hippel-Lindau Syndrome phenotype with prominent vitreoretinal neovascularization treated with early pars plana vitrectomy: a case series and review of the literature. *Ophthalmic Surgery, Lasers and Imaging: Retina*. 2019. In Press. 2019

Shields RA, Ludwig CA, **Powers MA**, Tijerina JD, Schachar IH, Moshfeghi DM. Surgical timing and presence of a vitreoretinal fellow on postoperative adverse events following pars plana vitrectomy. *Eur J Ophthalmol*. 2018 Nov 14. doi: 10.1177/1120672118811980 2018

Chandramohan A, Huang L, Lee M, Ludwig C, **Powers MA**, Shields RA, Fredrick D. Topical NSAIDs in low risk cataract surgery patients lack a clear benefit to warrant changes in current practice patterns. *EyeWorld*. 2018:Apr. <https://www.eyeworld.org/topical-nsaids-low-risk-cataract-surgery-patients-lack-clear-benefit-warrant-changes-current>. Accessed August 30, 2018. 2018

Powers MA, Wood EH, Sanislo SR, Nguyen QD, Hassan TS. Advanced Birdshot Chorioretinopathy Presenting as Chronic Cystoid Macular Edema and Vitritis Following Cataract Surgery. *Journal of VitreoRetinal Diseases*. 2018 Nov 26. doi.org/10.1177/2474126418808716 2018

Ludwig CA, Shields RA, Chen TA, **Powers MA**, Wilkin Parke D, Moshfeghi AA, Moshfeghi DM. A novel classification of high myopia into anterior and posterior pathologic subtypes. *Graefes Arch Clin Exp Ophthalmol*. 2018 Oct;256(10):1847-1856. doi: 10.1007/s00417-018-4071-0 2018

- Powers MA**, Wood EH, Erickson BP, Singh K, Sanislo SR, Kossler AR. Orbital, eyelid, and nasopharyngeal silicone oil granuloma presenting as ptosis & pseudo-xanthelasma. *American Journal of Ophthalmology Case Reports*. 2018;11:45-48 2018
- Shields, RA, Ludwig CA, **Powers MA**, Tran EMT, Smith SJ, Moshfeghi DM. Postoperative Adverse Events, Interventions, and the Utility of Routine Follow-Up After 23-, 25-, and 27-Gauge Pars Plana Vitrectomy. *Asian Pacific Journal of Ophthalmology*. 2019 Jan-Feb;8(1):36-42. doi: 10.22608/APO.2018398. 2018
- Shields RA, **Powers MA**, Schachar IH, Fredrick DR, Nguyen QD. Intravenous Immunoglobulin Induced Occlusive Retinal Vasculitis in a Child with Presumed Kawasaki Disease. In review at: *American Journal of Ophthalmology: Case Reports*. 2018
- Powers MA**, Greven M, Kleinman R, Nguyen QD, Do DV. Recent advances in the management and understanding of diabetic retinopathy. *F1000Res*. 2017 Nov 29;6:2063. 2017
- Powers MA**, Shields, RA, Moshfeghi AA, Moshfeghi DM. Outer Retinal Defects Represent a Normal Healing Pathway Following Internal Limiting Membrane Peeling in Macular Hole Surgery. 2017. *Ophthalmic Surgery, Lasers and Imaging: Retina*. 2018 Sep 1;49(9):e1-e8. doi: 10.3928/23258160-20180907-01. 2017
- Wood EH, **Powers MA**, Sanislo SR, Gaynon M. Correspondence: On the Etiology of Dome Shaped Macula. *Retina*: 2018 May;38(5):36-37. 2017
- Wood EH, **Powers MA**, Moshfeghi DM. Spontaneous globe rupture due to rapidly evolving endogenous hypermucoid klebsiella pneumoniae endophthalmitis. *Ophthalmic Surgery, Lasers & Imaging Retina*. 2017 Jul;48(7):600-601. PMID: 28728189 2017
- Wood EH, **Powers MA**, Sanislo SR, Gaynon MW. Sir, Regarding "Advances of optical coherence tomography in myopia and pathologic myopia." *Eye*. 2017 Jul;31(7):1114-1115. PMID: 28282059 2017
- Powers MA**, Kahook MY. New device for creating a continuous curvilinear capsulorhexis. *Journal of Cataract and Refractive Surgery*. 2014 May;40(5):822-30. PMID: 24767915 2014
- Deleyiannis FW, **Powers MA**. Lip replantation in an infant after prolonged ischemia: age as a factor affecting success. *Plastic and Reconstructive Surgery*. 2014 Feb;133(2):240e-1e. PMID: 24469214 2014
- Reddi A, **Powers MA**, Dellavalle RP. Therapeutic potential of the anti-diabetic agent metformin in targeting the skin cancer stem cell diaspora. *Experimental Dermatology*. 2014 May;23(5):345-6. PMID: 24521225 2014
- Powers MA**, Mudd P, Gralla J, McNair B, Kelley PE. Sedation-related outcomes in postoperative management of pediatric laryngotracheal reconstruction. *International Journal of Pediatric Otorhinolaryngology*. 2013 Sep;77(9):1567-74. PMID: 23932833 2013
- Reddi A, **Powers MA**, Thyssen A. HIV/AIDS and food insecurity: deadly syndemic or an opportunity for healthcare synergism in resource-limited settings of sub-Saharan Africa? *AIDS*. 2012 Jan 2;26(1):115-7. PMID: 2212681 2012
- Powers MA**, Do DV. Uveitis Update: the Paradigm Shifts Again. *Retina Specialist*. 2018;Mar:25-30. 2018

PUBLICATIONS (NON-PEER REVIEWED)

**NATIONAL &
REGIONAL
PRESENTATIONS**

Powers MA, Pecen PE, Palestine AG. When it Snows it Pours. Presented at: American Uveitis Society Winter Symposium. Jan 2019. Park City, UT. 2019

Powers MA. Pacific Retina Club Case Presentation (Vogt-Koyanagi-Harada Disease). Presented at: Pacific Retina Club Annual Meeting. Apr 2018. San Francisco, CA. 2018

Powers MA, Petz K, Kossler AL. Ophthalmic Air Regurgitation and Nasolacrimal Duct Surgery in Continuous Positive Airway Pressure Users. Podium presentation at The American Society of Ophthalmic Plastic and Reconstructive Surgery 46th Annual Fall Scientific Symposium. Las Vegas, NV. 2015

Reddi A, White R, **Powers MA**, Neiman J, Han G, Roop D, and Wang XJ. MicroRNA-9 causes expansion of cancer stem cells in skin squamous cell carcinoma metastasis. Presented at: International Investigative Dermatology Meeting. Edinburgh, Scotland. 2013

Mudd P, **Powers MA**, Gralla J, McNair B, Kelley PE. Postoperative Management in Laryngotracheal Reconstruction; Report of Sedation Related Outcomes. Presented at: The Society for Ear Nose and Throat Advances in Children 40th Annual Meeting. Charleston, SC. 2012

**ABSTRACTS &
POSTERS**

Powers MA, Slingsby TJ, Oliver SC. Effect of Subretinal Fluid Drainage Method on Surgical Success in Pars Plana Vitrectomy for Rhegmatogenous Retinal Detachment. Presented at: Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting. May 2018. Vancouver, BC. 2019

Powers MA, Shields RA, Ludwig CA, Moshfeghi DM. Postoperative Outcomes of Pars Plana Vitrectomy in Von Hippel-Lindau Disease. Presented at: MillennialEYE Annual Meeting. Sep 2018. Austin, TX. 2018

Powers MA, Shields RA, Ludwig CA, Moshfeghi DM. Postoperative Outcomes of Pars Plana Vitrectomy in Von Hippel-Lindau Disease. Presented at: Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting. Apr 2018. Honolulu, HI. 2018

Wood EH, **Powers MA**, Pershing S, Moshfeghi DM. Spontaneous Globe Rupture Due to Rapidly Evolving Endogenous Hypermucoic Klebsiella Pneumoniae Endophthalmitis. Poster presented at: Sonoma Eye Meeting. Sonoma, CA. 2017

Powers MA, Mercado CL, Wood EH, Tittler E, Singh K, Kossler AL. The Mysteries of Silicone Valley. Poster presented at: The American Society of Ophthalmic Plastic and Reconstructive Surgery 47th Annual Fall Scientific Symposium. Chicago, IL. 2016

Powers MA, Mudd P, Gralla J, McNair B, Kelley PE. Sedation-Related Outcomes in Postoperative Management of Pediatric Laryngotracheal Reconstruction. Poster presented at: Children's Hospital Colorado Annual Winter Pediatric Research Poster Session. Aurora, CO. 2013

Powers MA (co-first author), Lamborn NR, Abbott KJ, Lieurence RS, Stokke M, Richards DB. Morbidity of Tube Thoracostomy for Trauma in a South African Emergency Setting. An Update. Poster presented at: Annual Student Research Forum, University of Colorado School of Medicine. Aurora, CO. 2012

2012

Powers MA, Mudd P, Gralla J, McNair B, Kelley PE. Sedation-Related Outcomes in Postoperative Management of Pediatric Laryngotracheal Reconstruction. Poster presented at: Annual Student Research Forum, University of Colorado School of Medicine. Aurora, CO.

Powers MA (co-first author), Arnett DM, Johnson KA, Lamborn NR, Thyssen AP, Patterson SS, Abbott KJ, Lieurance RS, Stokke M, Richards DB. Morbidity of Tube Thoracostomy for Trauma in South African Tuberculosis and HIV Patients. Presented at 2010 Global Health Symposium, University of Colorado School of Medicine. Aurora, CO. 2010

Powers MA (co-first author), Arnett DM, Johnson KA, Lamborn NR, Thyssen AP, Patterson SS, Abbott KJ, Lieurance RS, Stokke M, Richards DB. Morbidity of Tube Thoracostomy for Trauma in South African Tuberculosis and HIV Patients. Presented at 2010 American Medical Association Medical Student Section Annual Meeting. Aurora, CO. 2010

**RESEARCH
CONFERENCES &
GRAND ROUNDS**

Powers MA, Slingsby TJ, Oliver SC. Effect of Subretinal Fluid Drainage Method on Surgical Success in Pars Plana Vitrectomy for Rhegmatogenous Retinal Detachment. University of Colorado Ophthalmology Research Day. Jun 2019. 2019

Powers MA. The Enemy of My Enemy. [Panuveitis Secondary to Tumor-Infiltrating Lymphocyte Therapy in Metastatic Melanoma] Grand Rounds, May 16 2019. University of Colorado Department of Ophthalmology. 2019

Powers MA. Iridociliary Melanoma with Extrascleral Extension. Grand Rounds - Tumor Board, Nov 2 2018. University of Colorado Department of Ophthalmology. 2018

Powers MA, Shariati A, Oh A, Shen Y, Chu Z, Wang R, Sun MH, Liao YJ. Structure-Function Correlations of OCT and OCTA in Optic Atrophy. Presented at: Stanford University Ophthalmology Research Day. Jun 2018 2018

Powers MA. Photodynamic Therapy for Intraocular Metastases. Grand Rounds, Mar 1 2016. Stanford University Department of Ophthalmology. 2018

Powers MA, Shields RA, Moshfeghi A, Moshfeghi DM. Surgical Factors Associated with Postoperative Outer Retinal Defects Following Macular Hole Repair. Research Day 2017, Stanford University Department of Ophthalmology. 2017

Shields R, **Powers MA**, Smith SJ, Moshfeghi DM. To See or Not to See: Post-Operative Visits Following Vitreoretinal Surgery. Research Day 2017, Stanford University Department of Ophthalmology. 2017

Powers MA. Saving Face. [Craniofacial Fibrous Dysplasia] Grand Rounds, Mar 23 2017. Stanford University Department of Ophthalmology. 2017

Powers, MA. Two Hundred Days Later. [Acute Retinal Necrosis] Grand Rounds, Oct 27 2016. Stanford University Department of Ophthalmology. 2016

Powers MA. Insult to Injury. [Radiation-Induced Optic Neuropathy] Grand Rounds, Sep 1 2016. Stanford University Department of Ophthalmology. 2016

Powers MA. A Disease of Theories. [Retinal Manifestation of Preeclampsia] Grand Rounds, Jun 16 2016. Stanford University Department of Ophthalmology. 2016

2016

	Powers MA , Abbasakoor N, Tran EM, Dosiou C, Kossler AL. Risk Factors for Dysthyroid Optic Neuropathy in Thyroid Eye Disease. Research Day 2016, Stanford University Department of Ophthalmology.	2016
	Powers, MA . It's Not A Tumor! [Pseudo-Foster Kennedy Syndrome] Grand Rounds, Mar 1 2016. Stanford University Department of Ophthalmology.	2015
	Powers MA . Differential Diagnosis and Clinical Workup of Acute Vision Loss. Department of Internal Medicine Morning Report, Kaiser Permanente San Francisco.	2013
	Powers MA , Kahook MY. Cost-Effective Alternatives to Femtosecond Laser Assisted Cataract Surgery. Weill Cornell Medical College Department of Ophthalmology Morning Conference.	2013
	Powers MA , Kahook MY. The Perfect Capsulorhexis - A Novel & Cost-Effective Device. 17 th Annual Ophthalmology Resident, Faculty and Alumni Research Day, University of Colorado School of Medicine.	2013
	Powers MA , Kahook MY. The Perfect Rhexis - Are We There Yet? Presented at Department of Ophthalmology Annual Collaborative Research Forum, University of Colorado School of Medicine.	2012
	Mudd P, Powers MA , Gralla J, McNair B, Kelley P. Postoperative Management in Laryngotracheal Reconstruction; Report of Sedation Related Outcomes. Presented at 2012 University of Colorado Annual Otolaryngology Resident Research Day. Aurora, CO.	
BOOK CHAPTERS	Powers MA , Tang PH, Mruthyunjaya P. Biopsy of Intraocular Tumors. In: Moshfeghi D, et al., ed. Vitreoretinal Surgical Techniques. In press	2018
	Powers MA , Mruthyunjaya P. How Do I Follow A Presumed Choroidal Nevus? In: Curbside Consultations in Retina, 2 nd Ed. 2017. In Press	2017
U.S. PATENTS	Kahook, Malik and Powers, Matthew . Devices and Methods for Creating a Predictable Capsulorhexis of Specific Diameter. U.S. Pub. No.: US 2016/0166432 A1. Pub. Date: Jun. 16, 2016	2016
U.S. PROVISIONAL PATENT APPLICATIONS	Alyono, Jennifer; Hunt, Robert; De Moraes Neto, Antonio Ermirio; Murphy, Edward; Powers, Matthew Armstrong ; Wang, Xinzi. Systems and Methods for Mobile Detection and Quantification of Intraocular Media Opacity. U.S. Provisional Patent Application 62519976, filed June 15 th 2017.	2017