

# RAAFAY SOPHIE, MD

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**PROFESSIONAL EXPERIENCE**

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- July 2020 to present**    **Vitreoretinal Surgeon**  
Retina Associates of Michigan, Grand Blanc and Clarkston, MI
- Jul 2018 to June 2020**    **Vitreoretinal Fellow and Clinical Instructor**  
Medical College of Wisconsin  
Department of Ophthalmology and Visual Sciences
- Jul 2015 to Jun 2018:**    **Ophthalmology Resident**  
University of Louisville School of Medicine,  
Department of Ophthalmology and Visual Sciences
- Jul 2014 to Jun 2015:**    **Resident Physician PGY-1 (Transitional Year)**  
University of Maryland Medical Center, Midtown Campus
- May 2013- Jun 2014:**    **Post-doctoral fellow - Wilmer Eye Institute, Johns Hopkins University**  
Preceptor: Dr. Peter Anthony Campochiaro, M.D
- May 2013- Jun 2014:**    **Associate Director - Retinal Imaging Research and Reading Center,**  
**Wilmer Eye Institute, Johns Hopkins University**
- June 2011-Apr 2013:**    **Research Assistant- Wilmer Eye Institute, Johns Hopkins University**  
Supervisors: Dr. Peter Anthony Campochiaro, M.D., Dr. Quan Dong Nguyen, M.D., MSc.
- Jan 2010 - Jan 2011:**    **Research Volunteer –Aga Khan University, Karachi, Pakistan**  
Supervisor: Dr. Syed Farid-ul Hasnain, M.B.B.S., Ph.D., MSc.
- Jan 2010 - Jan 2011:**    **Tutor – Karachi Tuition Academy, Karachi, Pakistan.**

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**BOARD CERTIFICATION**

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**CERTIFIED:**        Sep 13, 2020

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**ECFMG CERTIFICATION**

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**USMLE STEP 1:**        99<sup>th</sup> percentile (237)        **USMLE STEP 2 CK:**    99<sup>th</sup> percentile (244)  
**USMLESTEP 2 CS:**    Pass                                **USMLESTEP 3:**        Pass (210)

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**EDUCATION**

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- 2004-2009**                **The Aga Khan University, Medical College, Karachi, Pakistan**  
**M.B.B.S. - Bachelor of Medicine and Bachelor of Surgery**  
Completed Basic Sciences (Anatomy, Physiology, Biochemistry, Pathology, Pharmacology, Microbiology) and Epidemiology and Biostatistics.  
Clinical clerkships include Surgery, Internal Medicine, Emergency Medicine, Primary Health Care, Family Medicine, Community Health Sciences, Obstetrics and Gynecology, Pediatrics, Psychiatry, Orthopedics, Otolaryngology, Ophthalmology, Dermatology, Anesthesia, Radiology
- 2002-2004**                **Karachi Grammar School, Karachi, Pakistan**  
**GCE A Levels: 5A's**  
Biology (95%), Chemistry (96%), Mathematics (97%), Physics (96%) and English General (91%)  
**SAT I-** 1420,        **SAT II-**Mathematics IIc 800; Biology 740; Writing 660

2000-2002

Bay View High School, Karachi, Pakistan

GCE O Levels: 10A's

Mathematics (99%), Economics (95%), English Language (96%), English Literature (94%), Biology (95%), Physics (93%), Chemistry (94%), Additional Math (97%), Urdu (92%), Islamic Studies (95%)

## PUBLICATIONS

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### Peer-Reviewed indexed Journals:

1. **Sophie R**, Wang PW, Channa R, Quezada-Ruiz C, Clark A, Campochiaro PA  
*Ophthalmology*. 2019 Dec;126(12):1695-1702. Different Factors Associated with 2-Year Outcomes in Patients with Branch versus Central Retinal Vein Occlusion Treated with Ranibizumab.
2. **Sophie R**, Moses GM, Hwang ES, Kim JE.  
*JAMA Ophthalmol*. 2019 Jul 01;137(7):851-853. Fundus Hypopigmentation and Loss of Choroidal Nevi Pigmentation Associated With Nivolumab.
3. **Sophie R**, Lu N, Campochiaro PA.  
*Ophthalmology*. 2015 Jul;122(7):1395-401. Predictors of Functional and Anatomic Outcomes in Patients with Diabetic Macular Edema Treated with Ranibizumab.
4. **Sophie R**, Hafiz G, Scott AW, Zimmer-Galler I, Nguyen QD, Ying H, Do DV, Solomon S, Sodhi A, Gehlbach P, Duh E, Baranano D, Campochiaro PA.  
*Am J Ophthalmol*. 2013 Oct;156(4):693-705. Long-term Outcomes in Ranibizumab-Treated Patients With Retinal Vein Occlusion; The Role of Progression of Retinal Nonperfusion.
5. Campochiaro PA, **Sophie R**, Tolentino M, Miller DM, Browning D, Boyer DS, Heier JS, Gambino L, Withers B, Brigell M, Peters K.  
*Ophthalmology*. 2015 Mar;122(3):545-54 Treatment of Diabetic Macular Edema with an Inhibitor of Vascular Endothelial-Protein Tyrosine Phosphatase That Activates Tie2.
6. Campochiaro PA, Hafiz G, Mir TA, Scott AW, Solomon S, Zimmer-Galler I, Sodhi A, Duh E, Ying H, Wenick A, Shah SM, Do DV, Nguyen QD, Kherani S, **Sophie R**.  
*Ophthalmology*. 2015 Jul;122(7):1426-37 Scatter Photocoagulation Does Not Reduce Macular Edema or Treatment Burden in Patients with Retinal Vein Occlusion: The RELATE Trial.
7. Channa R, **Sophie R**, Bagheri S, Shah SM, Wang J, Adeyemo O, Sodhi A, Wenick A, Ying HS, Campochiaro PA.  
*Am J Ophthalmol*. 2015 Jan;159(1):9-19.e11-12. Regression of Choroidal Neovascularization Results in Macular Atrophy in Anti-vascular Endothelial Growth Factor-Treated Eyes.
8. Campochiaro PA, **Sophie R**, Pearlman J, Brown DM, Boyer DS, Heier JS, Marcus DM, Feiner L, Patel A; RETAIN Study Group. Long-term Outcomes in Patients with Retinal Vein Occlusion Treated with Ranibizumab: The RETAIN Study. *Ophthalmology*. 2014 Jan;121(1):209-19
9. Adeniran JF, **Sophie R**, Adhi M, Ramasubramanian, A. Early Detection of Radiation Retinopathy in Pediatric Patients Undergoing External Beam Radiation Using Optical Coherence Tomography Angiography. *Ophthalmic Surg Lasers Imaging Retina*. 2019 Mar 1;50(3):145-152
10. Channa R, **Sophie R**, Khwaja AA, Do DV, Hafiz G, Nguyen QD, Campochiaro PA; The READ-2 Study Group.  
*Eye (Lond)*. 2014 Mar;28(3):269-78. Factors Affecting Visual Outcomes in Patients with Diabetic Macular Edema Treated with Ranibizumab.
11. **Sophie R**, Campochiaro PA.  
*US Ophthalmic Review*. 2013;6(2):148–153. Treatment of Macular Edema following Branch Retinal Vein Occlusion.
12. **Sophie R**, Akhtar A, Sepah YJ, Ibrahim M, Bittencourt M, Do DV, Nguyen QD.  
*Biologics in Therapy* 2012 May; 2:3 Aflibercept: a Potent Vascular Endothelial GrowthFactor Antagonist for Neovascular Age-Related MacularDegeneration and Other Retinal Vascular Diseases.

13. Motta AAL, Bonanomi MTBC, Ferraz DA, Preti RC, **Sophie R**, Abalem MF, Queiroz MS, Pimentel SLG, Takahashi WY, Damico FM. Short-term effects of intravitreal bevacizumab in contrast sensitivity of patients with diabetic macular edema and optimizing glycemic control. *Diabetes Res Clin Pract.* 2019 Feb 11;149:170-178
14. Campochiaro PA, Hafiz G, Mir TA, Scott AW, Zimmer-Galler I, Shah SM, Wenick AS, Brady CJ, Han I, He L, Channa R, Poon D, Meyerle C, Aronow MB, Sodhi A, Handa JT, Kherani S, Han Y, **Sophie R**, Wang G, Qian J. Pro-permeability Factors in Diabetic Macular Edema; the Diabetic Macular Edema Treated With Ozurdex Trial. *Am J Ophthalmol.* 2016 Aug;168:13-23
15. Mir TA, Kherani S, Hafiz G, Scott AW, Zimmer-Galler I, Wenick AS, Solomon S, Han I, Poon D, He L, Shah SM, Brady CJ, Meyerle C, Sodhi A, Linz MO, **Sophie R**, Campochiaro PA. Changes in Retinal Nonperfusion Associated with Suppression of Vascular Endothelial Growth Factor in Retinal Vein Occlusion. *Ophthalmology.* 2016 Mar;123(3):625-63
16. Strauss RW, Muñoz B, Wolfson Y, **Sophie R**, Fletcher E, Bittencourt MG, Scholl HP. Assessment of Estimated Retinal Atrophy Progression in Stargardt Macular Dystrophy Using Spectral-Domain Optical Coherence Tomography. *Br J Ophthalmol.* Jul 2016;100(7):956-962
17. Campochiaro PA, Strauss RW, Lu L, Hafiz G, Wolfson Y, Shah SM, **Sophie R**, Mir TA, Scholl HP. Is There Excess Oxidative Stress and Damage in Eyes of Patients with Retinitis Pigmentosa? *Antioxid Redox Signal.* 2015 Sep 1;23(7):643-8
18. Campochiaro PA, Hafiz G, Mir TA, Scott AW, **Sophie R**, Shah SM, Ying HS, Lu L, Chen C, Campbell JP, Kherani S, Zimmer-Galler I, Wenick A, Han I, Paulus Y, Sodhi A, Wang G, Qian J. Pro-permeability Factors After Dexamethasone Implant in Retinal Vein Occlusion; the Ozurdex for Retinal Vein Occlusion (ORVO) Study. *Am J Ophthalmol.* 2015 Aug; 160(2):313-321.e19
19. Liu H, Bittencourt MG, **Sophie R**, Sepah YJ, Hanout M, Rentiya Z, Annam R, Scholl HP, Nguyen QD. Fixation Stability Measurement Using Two Types of Microperimetry Devices. *Transl Vis Sci Technol.* 2015 Mar 10;4(2):3
20. Ferraz DA, Vasquez LM, Preti RC, Motta A, **Sophie R**, Bittencourt MG, Sepah YJ, Monteiro ML, Nguyen QD, Takahashi WY. A Randomized Controlled Trial of Panretinal Photocoagulation with and Without Intravitreal Ranibizumab in Treatment-Naive Eyes With Non-High-Risk Proliferative Diabetic Retinopathy. *Retina.* 2015 Feb;35(2):280-7
21. Moradi A, Sepah YJ, Ibrahim MA, **Sophie R**, Moazez C, Bittencourt MG, Annam RE, Hanout M, Liu H, Ferraz D, Do DV, Nguyen QD; READ-2 Investigators. Association of Retinal Vessel Calibre and Visual Outcome in Eyes with Diabetic Macular Edema Treated with Ranibizumab. *Eye (Lond).* 2014 Nov;28(11):1315-20
22. Liu H, Bittencourt MG, Wang J, **Sophie R**, Annam R, Ibrahim MA, Sepah YJ, Moradi A, Scholl HP, Nguyen QD. Assessment of Central Retinal Sensitivity Employing Two Types of Microperimetry Devices. *Transl Vis Sci Technol.* 2014 Sep 12;3(5):3
23. Moradi A, Sepah YJ, Sadiq MA, Nasir H, Kherani S, **Sophie R**, Do DV, Nguyen QD. Vascular Endothelial Growth Factor Trap-eye (Aflibercept) for The Management of Diabetic Macular Edema. *World J Diabetes.* 2013 Dec 15;4(6):303-309. Review
24. Jang HS, Sepah YJ, **Sophie R**, Bittencourt MG, Ferraz D, Hanout M, Liu H, Do DV, Nguyen QD. Longitudinal Spectral Domain Optical Coherence Tomography Changes in Eyes with Intraocular Lymphoma. *J Ophthalmic Inflamm Infect.* 2013 Sep 8;3(1):59
25. Yohannan J, Bittencourt M, Sepah YJ, Hatf E, **Sophie R**, Moradi A, Liu H, Ibrahim M, Do DV, Coulantuoni E, Nguyen QD. Association of Retinal Sensitivity to Integrity of Photoreceptor Inner/Outer Segment Junction in Patients with Diabetic Macular Edema. *Ophthalmology.* 2013 Jun; 120(6):1254-61
26. Do DV, Nguyen QD, Khwaja AA, Channa R, Sepah YJ, **Sophie R**, Hafiz G, Campochiaro PA; READ-2 Study Group. Ranibizumab for Edema of The Macula in Diabetes Study: 3-Year Outcomes and The Need For Prolonged Frequent Treatment. *JAMA Ophthalmol.* 2013 Feb; 131(2):139-45

27. Bittencourt M, Agbedia OA, Liu HT, Leder HA, Annam R, Sepah YJ, Leder HA, **Sophie R**, Ibrahim M, Akhtar A, Akhlaq A, Do DV, Nguyen QD. Ocular Complications of HIV/AIDS in the Era of HAART. *Expert Rev. Ophthalmol.* 2012 Dec;7(6): 555–564
28. Sepah YJ, Hatef E, Colantuoni E, Wang J, Shulman M, Adhi FI, Akhtar A, Ibrahim M, Khwaja A, Channa R, **Sophie R**, Bittencourt M, Heo J, Do DV, Nguyen QD. Macular Sensitivity and Fixation Patterns in Normal Eyes and Eyes with Uveitis With and Without Macular Edema. *J Ophthalmic Inflamm Infect.* 2012 Jun; 2(2):65-73
29. Ali S, **Sophie R**, Imam AM, Khan FI, Ali SF, Shaikh A, Farid-ul-Hasnain S. Knowledge, Perceptions and Myths Regarding Infertility Among Selected Adult Population in Pakistan: A Cross-Sectional Study. *BMC Public Health.* 2011 Oct 4; 11:760. (highly accessed article)
30. Turkcuoglu P, Chang PY, Rentiya ZS, Channa R, Ibrahim M, Hatef E, **Sophie R**, Sadaka A, Wang J, Sepah YJ, Do DV, Foster CS, Nguyen QD. Mycophenolate Mofetil and Fundus Autofluorescence in The Management of Recurrent Punctate Inner Choroidopathy. *Ocul Immunol Inflamm.* 2011 Aug; 19(4):286-92.
31. Imaad-ur-Rehman, Memon W, Husen Y, Akhtar W, **Sophie R**, Baig MA. Accuracy of Computed Tomography in Diagnosing Malignancy in Solitary Pulmonary Lesions. *J Pak Med Assoc.* 2011 Jan; 61(1):48-51
32. Farid-ul-Hasnain S, **Sophie R**. Prevalence and Risk Factors for Stunting Among Children Under 5 years: A Community Based Study from Jhangara Town, Dadu Sindh. *J Pak Med Assoc.* 2010 Jan; 60(1):41-4
33. Saleem T, Syed M, **Sophie R**. Calcium Supplementation in Postmenopausal Women: Rethinking the Prescription. *J Pak Med Assoc.* 2009 Feb; 59(2):122-3

#### Book Chapter(s):

1. Do DV, Bittencourt MG, Agbedia O, **Sophie R** et al. "Vitreous, Retinal and Choroidal Biopsy". In: Elliot D, Rao PK. Surgical Management of Intraocular Inflammation and Infection. 1st ed. London, UK : JP Medical Ltd; 2013:72

#### Correspondence:

1. Campochiaro PA, Hafiz G, Mir TA, Scott AW, Zimmer-Galler I, Shah SM, Wenick AS, Brady CJ, Han I, He L, Channa R, Poon D, Meyerle C, Aronow MB, Sodhi A, Handa JT, Kherani S, Han Y, **Sophie R**, Wang G, Qian J. Pro-permeability Factors in Diabetic Macular Edema; the Diabetic Macular Edema Treated With Ozurdex Trial. *Am J Ophthalmology.* 2016 Oct;170:245-246
2. Campochiaro PA, Hafiz G, Mir TA, Scott AW, Solomon S, Zimmer-Galler I, Sodhi A, Duh E, Ying HS, Wenick AS, Shah SM, Do DV, Nguyen QD, Kherani S, **Sophie R**. Scatter Photocoagulation Does Not Reduce Macular Edema or Treatment Burden in Patients with Retinal Vein Occlusion: The RELATE Trial. *Ophthalmology.* 2016 May;123(5):e33-4
3. **Sophie R**, Lu N, Campochiaro PA. Predictors of Functional and Anatomic Outcomes in Patients with Diabetic Macular Edema Treated with Ranibizumab. *Ophthalmology.* 2016 Feb;123(2):e12-3
4. Campochiaro PA, Hafiz G, Mir TA, Scott AW, **Sophie R**, Shah SM, Ying HS, Lu L, Chen C, Campbell JP, Kherani S, Zimmer-Galler I, Wenick A, Han I, Paulus Y, Sodhi A, Wang G, Qian J. Pro-permeability Factors After Dexamethasone Implant in Retinal Vein Occlusion; the Ozurdex for Retinal Vein Occlusion (ORVO) Study. *Am J Ophthalmology.* 2016 Jan;161:216-7
5. **Sophie R**, Wang J, Campochiaro PA. Risk of Geographic Atrophy in the Comparison of Age-related Macular Degeneration Treatments Trials. *Ophthalmology.* 2014 Jul; 121(7):e34

#### Peer-Reviewed non-indexed Journals:

1. **Raafay Sophie**, Aparna Ramasubramanian. Pearls in Pediatric Ocular Oncology. *Review of Ophthalmology published* February 9<sup>th</sup> 2018

## NATIONAL AND INTERNATIONAL PRESENTATIONS

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1. "Management of Patients with Cataract and Diabetic Retinopathy" (**38th Annual Midwinter Retina Symposium, March 2020**)
2. "Fundus "Viteligo" and Loss of Choroidal Nevi Pigmentation Associated with Nivolumab" (**ASRS, July 2019**)
3. "Baseline predictors of functional outcomes in patients with diabetic macular edema (DME) in the RISE and RIDE trials" (**ARVO 2014 – Received NEI travel grant**)
4. "Diagnostic Challenge: Bilateral, Painless Loss of Vision in a Caucasian Woman" (**Atlantic Coast Retina Conference 2013**)
5. "Progression of Retinal Nonperfusion in Patients with Retinal Vein Occlusion" (**23<sup>rd</sup> Annual Wilmer Research Meeting 2012**)
6. "Baseline Characteristics in Patients with Branch Retinal Vein Occlusion or Central Retinal Vein Occlusion Treated with Ranibizumab that Predict Visual Outcome" (**Poster AAO 2012**)
7. "Roth Spots: Retinopathy associated with Chronic Myelogenous Leukemia" (**14th annual FOIS ARVO, 2009**)

## ABSTRACT(S)

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More than 30 abstracts presented at international meetings as presentations or posters, including at annual AAO and ARVO meetings.

## PEER REVIEWER (AD-HOC)

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- Journal of Vitreoretinal diseases- July 2020 to current
- Investigative Ophthalmology and Visual Science - Sep 2016
- Ophthalmology - Jul 2016
- American Journal of Ophthalmology - Feb 2016
- US Ophthalmic Review/European Ophthalmic Review- Jul 2013

## GRANTS

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- ARVO National Eye Institute travel grant 2014

## ACADEMIC AWARDS

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2008	Aga Khan University – <i>Honor Call, Pediatrics</i>
2004	Karachi Grammar School – <i>Glazebrook award for academic distinction</i> in Grades XIII
2003	Karachi Grammar School – <i>Glazebrook award for academic distinction</i> in Grades XII
2003	Mensa Pakistan Member – <i>99<sup>th</sup> percentile in IQ Test</i>
2002	Bay View High School – <i>1st position, Math, Science and Language distinction awards</i> in Grades XI
2001	Bay View High School – <i>1st position, Math, Science and Language distinction awards</i> in Grades X
2001	University of New South Wales International Assessment– <i>Distinctions in English and Mathematics</i>

## VOLUNTEER EXPERIENCE

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2018	<b>Volunteer</b> - Visual Screening at Kentucky Refugee Ministry
2017	<b>Volunteer</b> - Ophtho 101- Teaching Medical Student basics of Ophthalmology
2017	<b>Volunteer</b> - Visual Screening at Home of the Innocent
2013	<b>Volunteer</b> – Clinical ophthalmology workshop for Johns Hopkins University medical students
2005-2007	<b>Vice Head</b> – Falah Blood Bank, a student organized patient welfare society and a registered non- governmental organization (NGO) within Aga Khan University
2003-2007	<b>Member</b> – Family Educational Services Foundation (FESF), an educational organization that works with deaf children and organizes various community projects
2002-2003	<b>Volunteer</b> – Dar-ul-Sukun, an institute for mentally handicapped children