

MARISSÉ MASÍS SOLANO, M.D, PhD candidate

CLINICIAN SCIENTIST

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SUMMARY

Ophthalmologist and glaucoma specialist currently completing a PhD in Biomedical Science. Clinical and surgical experience in diverse populations. Expertise on translational and clinical research. Experienced with grant applications (NIH, FQRS), protocol design, statistical analysis, image processing and scientific publications. Has participated in resident supervision both in clinic and research education.

HIGHLIGHTS

- Cataract and glaucoma surgery
- Glaucoma clinical care
- Research expertise in optical coherence tomography in open and closed angle glaucoma
- Statistical analysis and programming
- Skills to develop national and international collaborations

EXPERIENCE

2019–2022 Doctorate candidate. Biomedical Sciences. Université de Montréal

2015–2018 Research Associate Glaucoma, University of California, San Francisco

2015–2015 Ophthalmology Clinician, Clinica Oftalmologica

2009–2012 Professor Physical therapy, Universidad de Costa Rica

2009–2011 Professor International students, Universidad Veritas

2009–2011 Research Associate Panamerican Health Organization

2009–2011 Clinician Hospital Max Peralta

EDUCATION

PhD in Biomedical Science (2019-current date)
Université de Montréal, Canada

International fellowship/researcher in glaucoma (2015-2016)
University of California San Francisco, USA

Clinical glaucoma fellowship (2014-1015)
Instituto Conde de Valenciana
Universidad Autónoma de México, Mexico

Ophthalmology Residency (2011-2014)

Universidad de Costa Rica, Costa Rica

Medical Doctor (2002-2009)

Universidad de Costa Rica, Costa Rica

STUDENT SUPERVISION

Academic Advisor Federico Ortiz (Completed)

Student Degree Start Date: 2014/2

Student Degree Received Date: 2017/2

Thesis/Project Title: Long-term follow up of Ahmed Valve surgery with the scleral tunneling technique

LANGUAGE SKILLS

English: proficient

Spanish: proficient

French: work proficient

Italian: work proficient

MEETING PRESENTATIONS

1. (2020). Assessment of a model using ocular rigidity to predict the magnitude of IOP spikes following intravitreal injections. ARVO, Baltimore, USA
2. (2017). Paper presentation Long term effects of micropulse cyclophotocoagulation. ARVO/PAAO, Baltimore, USA
3. (2017). Course speaker iGlaucoma. AAO, New Orleans, USA
4. (2017). Effects of micropulse cyclophotocoagulation in pupillary response. Trabecular meshwork, Portland, USA
5. (2017). Highlights of the Glaucoma subspecialty day. AAO/PAAO, New Orleans,
6. (2016). Differences in Trabecular Meshwork Height in Primary Open-Angle Glaucoma and Primary Angle-Closure Glaucoma. AAO, Chicago, USA
7. (2016). Trabecular meshwork in PACG. Trabecular meshwork society, San Diego, USA
8. (2016). Lo mejor de la academia en español: glaucoma. AAO/PARD, Chicago, USA
9. (2016). Association between self-reported bupropion use and glaucoma: A population-based study. ARVO/PAAO, Seattle, USA
10. (2014). Quality of life evaluation of the geriatric population with glaucoma in Costa Rica. ARVO/PAAO, Orlando,
11. (2013). Ischemia in Takayasu Arteritis. PAAO., Rio de Janeiro, Brasil

12. (2011). Choroidal imaging in patients with hypertension. ARVO, Fort Lauderdale, USA

13. Lihteh Wu MD. (2011). Choroidal imaging in patients with hypertension. ARVO/PAAO, Fort Lauderdale, USA

AWARDS

2020 - 2021 Bourse d'exemption (Tuition exemption) (Canadian dollar)
Université de Montréal
Prize / Award

2020/1 - 2021/10 FRQS - 21000 (Canadian dollar) per year (max 5 years)
Fonds de Recherche Santé Québec
Prize / Award

2020/1 - 2021/10 FROUM - 12,800 (Canadian dollar)
Université de Montréal
Prize / Award

2019/12 - 2019/12 Bourse d'excellence - 4,000 (Canadian dollar)
Université de Montréal
Prize / Award

2015/6 Sear Scholarship
Panamerican Ophthalmology Association
Prize / Award

2011/4 ARVO travel award
ARVO
Prize / Award

PUBLICATIONS

1. **Masis Solano M**, Richer E, Cheriet F, Lesk M, Costantino S. (2022) Mapping pulsatile optic nerve head deformation using clinical optical coherence tomography. *Ophthalmology Science*. Accepted. *In press*
2. Badr, Mai and **Masis Solano, Marisse** and Amoozgar, Behzad and Nguyen, Anwell and Porco, Travis and Lin, Shan. (2019). Central Corneal Thickness Variances Among Different Asian Ethnicities in Glaucoma and Nonglaucoma Patients. *Journal of glaucoma*. 28(3): 223--230.
3. Ianchulev, Tsoncho and Lane, Stephen and **Masis, Marisse** and Lass, Jonathan H and Benetz, Beth Ann and Menegay, Harry J and Price, Francis W and Lin, Shan. (2019). Corneal Endothelial Cell Density and Morphology After Phacoemulsification in Patients With Primary Open-Angle Glaucoma and Cataracts: 2- Year Results of a Randomized Multicenter Trial. *Cornea*. 38(3): 325--331.
4. Perez, Claudio I and Chansangpetch, Sunee and Nguyen, Anwell and Feinstein, Max and Mora, Marta and Badr, Mai and **Masis, Marisse** and Porco, Travis and Lin, Shan C. (2019). How to Predict Intraocular Pressure Reduction after Cataract Surgery? A Prospective Study. *Current eye research*.

5. Gonzalez, Marta Mora and Solano, **Marisse Masis** and Porco, Travis C and Oldenburg, Catherine E and Acharya, Nisha R and Lin, Shan C and Chan, Matilda F. (2018). Epidemiology of uveitis in a US population based study. *Journal of ophthalmic inflammation and infection*.
6. **Solano Marisse Masis** and Lin, Shan C. (2018). Cataract, phacoemulsification and intraocular pressure: Is the anterior segment anatomy the missing piece of the puzzle?. *Progress in retinal and eye research*. 64:77--83.
7. **Masis, Marisse** and Mineault, Patrick J and Phan, Eileen and Lin, Shan C. (2018). The role of phacoemulsification in glaucoma therapy: A systematic review and meta-analysis. *Survey of ophthalmology*. 63(5): 700--710.
8. Perez, Claudio I and Chansangpetch, Sunee and Feinstein, Max and Mora, Marta and Nguyen, Anwell and Badr, Mai and **Masis, Marisse** and Lin, Shan C. (2018). Novel gonioscopy score and predictive factors for intraocular pressure lowering after phacoemulsification. *Journal of glaucoma*. 27(7): 622--626.
9. Keller, Kate E and Bhattacharya, Sanjoy K and Borr Theresa and Brunner, Thomas M and Chansangpetch, Sunee and Clark, Abbott F and Dismuke, W Michael and Du, Yiqin and Elliott, Michael H and Ethier, **Masis Marisse**, C Ross and others. (2018). Consensus recommendations for trabecular meshwork cell isolation, characterization and culture. *Experimental eye research*. 171: 164--173.
10. Wang, Qinyun and Hsia, Yen C and Perez, Claudio Ignacio and Feinstein, Max and **Masis, Marisse** and Mora, Marta and Lin, Shan C. (2018). Post-phacoemulsification iris changes in glaucomatous and nonglaucomatous eyes. *Investigative Ophthalmology & Visual Science*. 59(9): 5885--5885.
11. Zhao, Jing and Solano, **Marisse Masis** and Oldenburg, Catherine E and Liu, Tianshu and Wang, Yaxing and Wang, Ningli and Lin, Shan C. (2018). Prevalence of normal tension glaucoma in the Chinese population: A systematic review and meta-analysis. *American Journal of Ophthalmology*.
12. Lin, Shan C **and Masis, Marisse** and Porco, Travis C and Pasquale, Louis R. (2017). Predictors of intraocular pressure after phacoemulsification in primary open-angle glaucoma eyes with wide versus narrower angles (An American Ophthalmological Society Thesis). *Transactions of the American Ophthalmological Society*.
13. Hirabayashi, Kristin and **Masis, Marisse** and Lin, Shan C. (2017). Anterior segment OCT predictors of intraocular pressure drop after phacoemulsification: One year follow up. *Investigative Ophthalmology & Visual Science*. 58(8): 2092--2092.
14. **Masis, Marisse** and Kakigi, Caitlin and Singh, Kuldev and Lin, Shan. (2017). Association between selfreported bupropion use and glaucoma: a population-based study. *British Journal of Ophthalmology*.
15. **Masis, Marisse** and Chen, Rebecca and Porco, Travis and Lin, Shan C. (2017). Trabecular meshwork height in primary open-angle glaucoma versus primary angle-closure glaucoma. *American journal of ophthalmology*. 183: 42--47.
16. Hsia, Yen C and Moghimi, Sasan and Coh, Paul and Chen, Rebecca and **Masis, Marisse** and Lin, Shan C. (2017). Anterior segment parameters as predictors of intraocular pressure reduction after phacoemulsification in eyes with open-angle glaucoma. *Journal of Cataract & Refractive Surgery*. 43(7):879--885.

17. **Masis, Marisse** and Lin, Shan and Coh, Paul. (2017). Micropulse transscleral diode laser cyclophotocoagulation: mid to long-term results and anatomical effects. *Investigative Ophthalmology & Visual Science*. 58(8): 4993--4993.
18. Coh, Paul and Moghimi, Sasan and Chen, Rebecca I and Hsu, Chi-Hsin and **Solano, Marisse Masis** and Porco, Travis and Lin, Shan C. (2016). Lens position parameters as predictors of intraocular pressure reduction after cataract surgery in glaucomatous versus nonglaucomatous eyes. *Investigative ophthalmology & visual science*.
19. Wu, Lihteh and Fernandez-Loaiza, Priscilla and Sauma, Johanna and Hernandez-Bogantes, Erick and **Masis, Marisse** (2013). Classification of diabetic retinopathy and diabetic macular edema. *World journal of diabetes*. 4(6): 290.

Book Chapters

1. Micropulse Cyclophotocoagulation: an update on a novel glaucoma treatment. *Glaucoma Research and Clinical Advances*. 265-275. 2018 Published, Kugler Publications, Amsterdam,