

## CURRICULUM VITAE

### **Esther Lee Kim, M.D.**

CA Medical License #A127421

Mailing/Contact Address:

Orange County Retina Medical Group  
1200 North Tustin Avenue, Suite 140  
Santa Ana, California 92705  
714-972-8432

#### **PROFESSIONAL PRACTICE AFFILIATIONS**

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Orange County Retina Medical Group  
Physician/Surgeon/Clinical Trial Investigator  
Since 9/01/2018

1200 North Tustin Avenue	Suite 140	Santa Ana, CA 92705	714-972-8432
1200 North Tustin Avenue	Suite 100	Santa Ana, CA 92705	714-972-8432
24022 Calle de la Plata	Suite 475	Laguna Hills, CA 92653	949-581-3618
320 Superior Avenue	Suite 160	Newport Beach, CA 92663	949-646-3242
333 W. Bastanchury Road	Suite 200	Fullerton, CA 92835	714-451-0801
31451 Rancho Viejo Road	Suite 101	San Juan Capistrano, CA 92675	949-496-0611

#### **EDUCATION AND TRAINING**

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##### **Vitreoretinal Fellowship**

Clinical Fellow in Vitreoretinal Surgery  
Harvard Medical School, Massachusetts Eye and Ear Infirmary  
Department of Ophthalmology, Boston, Massachusetts, July 2016 – July 2018

##### **Residency in Ophthalmology**

University of Southern California Roski Eye Institute, Department of Ophthalmology  
Los Angeles County + USC Medical Center, Los Angeles, California, July 2013 - June 2016

##### **Internship in Medicine**

Cedars-Sinai Medical Center, Department of Internal Medical  
Los Angeles, California, July 2012 – June 2013

##### **Medical School**

Doctor of Medicine  
Yale University School of Medicine  
New Haven Connecticut, September 2008 – May 2012

##### **Undergraduate**

A.B, Molecular Biology  
Princeton University  
Princeton, New Jersey; September 2004 – June 2008  
Graduated *Cum Laude* with Distinction

##### **High School**

Sunny Hills High School  
Fullerton, California; September 2000 – June 2004  
Graduated Valedictorian (class of 600 students)

## **LICENSE AND CERTIFICATION**

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American Board of Ophthalmology, 10/22/2017

State of California Medical License #A127421, Physician and Surgeon, 9/25/2013

State of Massachusetts Medical License #266190, Board of Registration in Medicine, 6/16/2016

## **ACADEMIC HONORS**

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Robert Brockhurst Academic Development Award (July 2017): Massachusetts Eye and Ear

American Society of Retina Specialists' Advocacy Ambassador to the American Academy of Ophthalmology Mid-Year Forum in Washington, D.C. (Apr 2017)

Outstanding Presentation Award (Jan 2017): Fellows and Ophthalmologists-in-Training Pre-Atlantic Coast Retina Conference

Women in Retina American Academy of Ophthalmology Subspecialty Day Travel Grant Recipient (Oct 2016): Women in Retina, American Society of Retina Specialists

Heed Ophthalmic Foundation Residents and Faculty Retreat, USC Eye Institute representative (Sept 2015): The Heed Ophthalmic Foundation

Doheny Eye Institute Resident ARVO Travel Grant (June 2014): Doheny Eye Institute / ARVO

Best First-Year Resident Learning Portfolio (Jan 2014): USC Eye Institute

6<sup>th</sup> Annual Memorial Book Award & Annual Essay Contest, Runner-Up (Aug 2011): Sponsored by The Geezers, Connecticut Medicine, and The Yale Journal for Humanities in Medicine

Scholarship for Academic Excellence (Sept 2010): The Kyunggi Foundation of Southern California

Richard A. Mogio, M.D., Student Research Fellowship (Summer, 2009): Student Research Fellowship, Yale School of Medicine

Intensive Pedagogical Laboratory Research Elective in Bar Harbor, Maine (June 2009): Yale School of Medicine, Mount Desert Island Biological Laboratory

Associate member inductee (May 2008): Sigma Xi, the Scientific Research Society

Undergraduate Representative of the Advisory Board to Healthier Princeton (2005-2008)

Undergraduate Representative of the Alcohol Coalition Committee at Princeton University (2007-2008)

Ivy Leadership Summit Conference participant (Spring, 2005)

Valedictorian, Sunny Hills High School (June 2004)

## **PROFESSIONAL EXPERIENCE**

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July 2016-July 2018

Supervising Attending

Massachusetts Eye and Ear Emergency Ward, Massachusetts Eye and Ear Infirmary, Boston, MA

September 2009— May 2010

Teacher's Assistant

First year medical students' histology class, Yale University School of Medicine, New Haven, CT

September 2010— June 2012

After Hours Triage

Emergency Department Radiology, Yale University School of Medicine , New Haven, CT

September 2005— June 2008

Health Promotion and Wellness Assistant

Department of Health Promotion and Wellness Services at Princeton, University Health Services, Princeton University, Princeton, NJ

## **PROFESSIONAL ORGANIZATION MEMBERSHIPS**

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2012 – Present            Association for Research in Vision and Ophthalmology

2012 – Present            Los Angeles County Medical Association

2013 – Present            Los Angeles Society of Ophthalmology

2013 – Present            Women in Ophthalmology

2014 – Present            American Academy of Ophthalmology

2014 – Present            American Society of Cataract and Refractive Surgery

2016 – Present            American Society of Retina Specialists

## HOSPITAL/SURGERY CENTER AFFILIATIONS

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08/2018 – Present	Anaheim Regional Medical Center, Anaheim, California
08/2018 – Present	Barranca Surgery Center, Irvine, California
10/2018 – Present	Children’s Hospital at Mission, Mission Viejo, California
07/2018 – Present	Hoag Memorial Hospital Presbyterian, Newport Beach, California
08/2018 – Present	Orange County Global Medical Center, Santa Ana, California
08/2018 – Present	Pacific Hills Surgery Center, Laguna Hills, California
08/2018 – Present	Saddleback Medical Center, Laguna Hills, California
08/2018 – Present	St. Jude Medical Center, Orange, California
08/2018 – Present	St. Joseph Hospital, Orange, California
01/2019 – Present	Children's Hospital of Orange County, Orange, California

## PROFESSIONAL PRESENTATIONS

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01. *New Treatment Paradigm Series: Novel Therapy for Non-Infectious Anterior Uveitis*  
Aldeyra Therapeutics Protocol #ADX-102-UV-005, Newport Beach, California; February 12, 2019
02. *New Treatment Paradigm Series: Surgically Implanted Ranibizumab Reservoir for Wet AMD*  
Genentech Protocol #GR40548 “ARCHWAY”, Newport Beach, California; February 26, 2019
03. *New Treatment Paradigm Series: Surgically Implanted Ranibizumab Reservoir for Wet AMD*  
Genentech Protocol #GR40548 “ARCHWAY”, Newport Coast, California; February 28, 2019
04. *New Treatment Paradigm Series: New Molecule for the Treatment of DME*  
Genentech Protocol #GR40349 “YOSEMITE”, Irvine, California; March 7, 2019

## CLINICAL RESEARCH

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01. Clearside, Protocol #CLS1003-301 (SAPPHIRE), Phase III; 2018-2019  
Masked Sub-Investigator. *A randomized, masked, controlled trial to study the safety and efficacy of suprachoroidal CLS-TA in conjunction with intravitreal aflibercept in subjects with retinal vein occlusion*
02. Regenerative Patch Technologies, Protocol #RPT-14-001, Phase I; 2018-Present  
Sub-Investigator. *A phase I/IIA safety study of subretinal implantation of CPCB-RPE1 (human embryonic stem cell-derived retinal pigment epithelial (RPE) cells seeded on a polymeric substrate) in subjects with advanced, dry age-related macular degeneration (AMD)*
03. Aldeyra, Protocol #ADX-102-UV-005, Phase III; 2018-Present  
Sub-Investigator. *A phase 3 randomized, double-masked, vehicle-controlled trial to evaluate the safety and efficacy of ADX-102 ophthalmic solution in subjects with non-infectious anterior uveitis*
04. Opthea, Protocol #OPT-302-1002, Phase III; 2018-Present  
Sub-Investigator: *A dose-ranging study of intravitreal OPT-302 in combination with ranibizumab, compared with ranibizumab alone, in participants with neovascular age-related macular degeneration (wet AMD)*
05. Opthea #OPT 302-1003, Phase IB/IIA; 2018-2019  
Sub-Investigator: *Phase 1b/2a study of OPT-302 in combination with aflibercept for persistent central-involved diabetic macular edema*
06. KalVista, Protocol KVD001-2001, Phase II; 2018-Present  
Sub-Investigator. *A randomized, sham-controlled double-masked Phase 2a study of the efficacy, safety and tolerability of the intravitreal plasma kallikrein inhibitor, KVD001, in subjects with center-involving diabetic macular edema (cDME) who have had prior anti-vascular endothelial growth factor (VEGF) treatment*
07. Iconic, Protocol IT-004 (DECO), Phase II; 2018-Present  
Sub-Investigator: *A phase 2 randomized, open-label, multicenter study evaluating administration of repeated intravitreal doses of ICON-1 in patients with choroidal neovascularization secondary to age-related macular degeneration*
08. Genentech/Roche, Protocol #GR40349 (YOSEMITE), Phase III; 2018-Present  
Sub-Investigator. *A phase III, multicenter, randomized, double-masked, active comparator-controlled study to evaluate the simultaneous blockade of antiangiogenic factors VEGF-A and Ang-2 with the bispecific antibody RO6867461 (RG7716) in diabetic retinopathy patients with diabetic macular edema*
09. Genentech/Roche, Protocol #GR40549 (PORTAL), Phase III; 2018-Present  
Sub-Investigator. *A multicenter, open-label extension study to evaluate the long-term safety and tolerability of the port delivery system with ranibizumab in patients with neovascular age-related macular degeneration*
10. Genentech/Roche, Protocol #GR40548 (ARCHWAY), Phase III; 2018-Present  
Sub-Investigator. *A phase III, multicenter, randomized, visual assessor-masked, active-comparator study of the efficacy, safety and pharmacokinetics of the port delivery system with ranibizumab in patients with neovascular age-related macular degeneration*

11. Apellis, Protocol #APL2-304 (OAKS), Phase III; 2018-Present  
Sub-Investigator. *A phase III, multicenter, randomized, double-masked, sham-controlled study to compare the efficacy and safety of intravitreal APL-2 therapy with sham injections in patients with geographic atrophy (GA) secondary to age-related macular degeneration (AMD)*
12. Genentech, Protocol #GR40844 (LUCERNE), Phase III; 2019-Present  
Sub-Investigator. *A phase III, multicenter, randomized, double-masked, active comparator, controlled study to evaluate the efficacy and safety of farcimab in patients with neovascular age-related macular degeneration*

## BIBLIOGRAPHY

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### PUBLICATIONS

1. **Kim EL**, Thanos A, Yonekawa Y, Todorich B, Wolfe J, Randhawa S, Faia L. Optical coherence tomography angiography findings in punctate inner chorioretinopathy. *ophthalmic surgery, Laser and Imaging Retina*. 2017; 48(10):786-792.
2. **Kim EL**, Jeng-Miller K, Yonekawa Y. Macular telangiectasia type 1. *Ophthalmology Retina*. 2017; 1(5): 381.
3. **Kim EL**, Rodger DC, Rao NA. Choroidal neovascularization secondary to tuberculosis: presentation and management. *American Journal of Ophthalmology Case Reports*. Apr 2017; 5:124-129.
4. Roh M, **Kim EL**, Elliott D, Yonekawa Y. Internal limiting membrane peeling during idiopathic epiretinal membrane removal: pros and cons. *Journal of VitreoRetinal Diseases*. 2017; 1(2):138-143.
5. **Kim EL**, Patel S, George M, Ameri H. *Ochroconis gallopava* endophthalmitis successfully treated with voriconazole and amphotericin B. *Retinal Cases and Brief Reports*. 2016 Dec 20. PMID: 28002285.
6. **Kim EL**, Chen A, Rao NA. A Glistening lens. *Ophthalmology Retina*. 2017; 1(3):255.
7. **Kim EL**, Tran J, Toeteberg-Harms M, Chahal J, Rhee D, Chopra V, Francis BA. Vision loss and recovery after Baerveldt implantation. *Journal of Ophthalmology*. 2017; 2017: 4140305.
8. **Kim EL**, Tran J, Moshfeghi AA. Self-reported characteristics of retina specialists in the United States. *Ophthalmology*. 2016; 123(2): 438-40.
9. Rodger D, **Kim EL**, Rao N. Ophthalmomyiasis interna. *Ophthalmology*. 2016; 123(2): 247.
10. **Kim EL**, Moshfeghi AA. Wide-field imaging of retinal diseases. *US Ophthalmic Review*. 2015; 8(2): 125–31.
11. Storey P, **Kim EL**, Patel V. Ptosis, miosis, and intermittent esotropia following pituitary adenoma resection. *JAMA Ophthalmology*. 2016; Aug 1; 134(8):941-2.
12. **Kim EL**, Bernardino CR, Levin F. Orbital volume augmentation using expandable hydrogel implants in acquired anophthalmia and phthisis bulbi. *Orbit*. 2016; 35(2):91-6.
13. **Kim EL**, Moshfeghi AA. Effects of intravitreal anti-VEGF therapy on the severity of diabetic retinopathy. *Current Ophthalmology Reports*. 2016; 10.1007/s40135-016-0094-z

14. **Kim EL**, Bai H, Cornfeld D, Vorobiof G, Mojibian H. Prevalence and clinical significance of incidental cardiovascular findings on routine chest computed tomography scan. *British Journal of Radiology*; submitted for review
15. **Lee ES**. Empathy. *The Yale Journal for Humanities in Medicine*; published online August 11, 2014. <http://yjh.yale.edu/essays/elee20110814.htm>
16. Craig ES, Nagarajan P, **Lee ES**, Lazova R, Terner J, Narayan D. The perichondrium in auricular melanomas: implications for surgical management. *Otolaryngology. Head and Neck Surgery*. 2012; 148(3):431-5.
17. Hornick M, Moomiaie R, Mojibian H, Ziganshin B, Almuwaqqat Z, **Lee ES**, Rizzo JA, Tranquilli M, Elefteriades JA. 'Bovine' Aortic Arch – A marker for thoracic aortic disease. *Cardiology*. 2012; 123(2):116-24.
18. Korpala M, **Lee ES**, Hu G, Kang Y. The miR-200 Family inhibits epithelial-mesenchymal transition and cancer cell migration by direct targeting of E-cadherin transcriptional repressors ZEB1 and ZEB2. *Journal of Biological Chemistry*. 2008; 283(22):14910-4.

#### WORKS IN PROGRESS

1. **Kim EL**, Stem M, Weiner A, Ung C, Wang J, Lee I, Huang N, Roh, M, Dahrouj, M, Wolfe J, Elliott D, Yonekawa Y. Epiretinal proliferation in lamellar holes and full-thickness macular holes affects final visual acuity after surgical repair.
2. **Kim EL**, Thomas M, Lains I, Choi EY, Kim L, Lesmes L, Zacks D, Miller JB. A novel contrast sensitivity test to assess visual outcomes in central serous chorioretinopathy.
3. Thomas M, **Kim EL**, Yu G, Joltikov K, Choi EY, Kim L, Miller JB, Zacks D. A novel contrast sensitivity test to assess visual outcomes in macula-involving rhegmatogenous retinal detachments.
4. **Kim EL**, Kakulavarapu S, Yonekawa Y. Surgical management of persistent fetal vasculature (PFV). *Vitreoretinal Surgical Techniques*, Third ed. Peyman *et al*.
5. Sachdeva M, **Kim EL**, Mellen P, Lains I, Richmond D, Miller JB, Husain D, Wu D. Quantitative mapping of geographic atrophy in age-related macular degeneration.
6. **Kim EL**, Hall L, Jeng-Miller K, Gardiner M. Utilization of an ophthalmology-specific emergency room at a tertiary care hospital: the Massachusetts Eye and Ear experience.
7. **Kim EL**, Yonekawa Y. Pigmentary Retinopathy in Mosaic Partial 3p Tetrasomy.

#### PEER-REVIEWED MEETING ABSTRACTS AND PRESENTATIONS

1. Poster presentation. A novel contrast sensitivity test as a new measure of visual function in central serous chorioretinopathy. Marmalidou, A, **Kim EL**, Silverman R, Thomas M, Lains I, Choi A, Bittner AK, Kim L, Lesmes L, Zacks D, Miller JB. The Association for Research in Vision and Ophthalmology (ARVO), Honolulu, HI, Apr 29-May 2, 2018.
2. Podium presentation. **Kim EL**, Stem M, Weiner A, Ung C, Wang J, Lee I, Huang N, Roh, M, Dahrouj, M, Wolfe J, Elliott D, Yonekawa Y. Presence of epiretinal proliferation (ERP) and visual outcomes after surgical repair of full-thickness macular holes and lamellar holes. Retina Society 50<sup>th</sup> Anniversary Annual Meeting, Boston, MA, Oct 5-8, 2017.

3. Poster presentation. Thomas M, **Kim EL**, Yu G, Joltikov K, Choi E, Kim L, Miller JB, Zacks D. A novel contrast sensitivity test to assess visual function in macula-involving retinal detachment and central serous retinopathy. Retina Society 50<sup>th</sup> Anniversary Annual Meeting, Boston, MA, Oct 5-8, 2017.
4. Poster presentation. **Kim EL**, Thomas M, Lains I, Choi EY, Kim L, Lesmes L, Zacks D, Miller JB. A novel contrast sensitivity test to assess visual outcomes in central serous chorioretinopathy. American Society of Retina Specialists (ASRS) Meeting, Boston, MA, Aug 11-15, 2017.
5. Podium presentation and EyeTube talk. Miller JB, Thomas M, **Kim EL**, Kim L, Zacks D. A novel contrast sensitivity test to assess visual outcomes in macula-involving rhegmatogenous retinal detachments. American Society of Retina Specialists (ASRS) Meeting, Boston, MA, Aug 11-15, 2017.
6. **Kim EL**, Thomas M, Lains I, Choi EY, Kim L, Lesmes L, Zacks D, Miller JB. A novel contrast sensitivity test to assess visual outcomes in central serous chorioretinopathy. Nantucket Retina, Nantucket Island, MA, Jul 26-28, 2017.
7. Thomas M, **Kim EL**, Yu G, Joltikov K, Choi EY, Kim L, Miller JB, Zacks D. A novel contrast sensitivity test to assess visual function in macula-involving retinal detachment and central serous retinopathy. The Association for Research in Vision and Ophthalmology (ARVO), Baltimore, MD, May 7-11, 2017.
8. **Kim EL**, Thanos A, Yonekawa Y, Todorich B, Wolfe J, Randhawa S, Faia L. Optical coherence tomography angiography findings in punctate inner chorioretinopathy. American Uveitis Society Annual Meeting, Chicago, IL, Oct 16, 2016.
9. **Kim EL**, Tran J, Toeteberg-Harms M, Chahal J, Rhee D, Chopra V, Francis BA. Paper presentation: vision loss and recovery after Baerveldt implantation. American Academy of Ophthalmology (AAO), Las Vegas, NV, Nov 14-17, 2015.
10. Accepted for poster presentation. **Kim EL**, Moshfeghi AA. Role of medical retina specialists in an evolving retina field. Women in Ophthalmology (WIO) Summer Symposium, Scottsdale, AZ, Aug 6-9, 2015.
11. **Kim EL**, Tran J, Toeteberg-Harms M, Chahal J, Rhee D, Chopra V, Francis BA. Poster presentation: Vision loss and recovery after Baerveldt implantation. The Association for Research in Vision and Ophthalmology (ARVO), Denver, CO, May 3-7, 2015.
12. **Lee ES**, Bernardino CR, Levin F. Poster presentation: Orbital volume augmentation using expandable hydrogel implants in acquired anophthalmia and phthisis bulbi. The Association for Research in Vision and Ophthalmology (ARVO), Orlando, FL, May 4-8, 2014.
13. **Lee ES**, Kempton J, Wu CA, Daccache A, Adelman R, Huang J. Poster presentation: Glycemic control and laser photocoagulation outcomes in diabetic macular edema. The Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, FL, May 6-10, 2012.
14. Hong BK, **Lee ES**, Chopra V, Francis BA. Poster presentation: Vision loss and recovery after Baerveldt. The Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, FL, May 6-10, 2012.
15. Young NO, **Lee ES**, Acton L. Poster presentation: Hands-free Speech in glottic stenosis patients. American Academy of Otolaryngology – Head and Neck Surgery Annual Meeting, San Francisco, CA, Sept 11-14, 2011.



## INVITED JOURNAL REVIEWER

*Retina*

*Ophthalmic Plastic and Reconstructive Surgery*

## THESES

1. Undergraduate Thesis in Molecular Biology  
Title: Elucidating the Role of MicroRNAs in Epithelial-Mesenchymal Transition and Cancer Metastasis  
Advisor: Yibin Kang, PhD  
Date Published: May 2008
2. Medical School Thesis  
Title: Prevalence and Clinical Significance of Incidental Cardiovascular Findings on Routine Chest Computed Tomography Scans  
Advisor: Hamid Mojibian, MD  
Date Published: March 2012

## BOOKS

First Aid for the USMLE Step 1 2011 (Jan 2011). Contributing Author and Editor of Behavioral Sciences, Embryology, and Psychiatry sections.

## WEBSITES

<http://www.princeton.edu/experienceuhs/>. Co-author and co-designer of website that helps students navigate through the healthcare system at Princeton University

## LANGUAGES

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Fluent Korean, Proficient Spanish, Conversational French