

CURRICULUM VITAE

Jennifer J. Ling, M.D.

Updated October 2021

I. EDUCATIONAL AND PROFESSIONAL HISTORY

A. Institutions Attended

2010	B.Sc.	University of Toronto Magna Cum Laude, Neuroscience
2014	M.D.	University of Pittsburgh School of Medicine

B. Postgraduate Medical Education

2014-15	Intern	University of Pittsburgh Medical Center Department of Internal Medicine
2015-18	Resident	UC Davis Health System Eye Center Department of Ophthalmology & Vision Science
2018-19	Fellow	University of Michigan, Kellogg Eye Center Clinical Fellowship, Cornea and External Diseases

C. Employment

2019-	Clinical Assistant Professor, Department of Ophthalmology and Visual Sciences Cornea and External Diseases, University of Iowa, Carver College of Medicine
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D. Certificate and Licensure

Iowa, License No. MD-46218
Michigan, License No. 4301114275 (inactive)
California, License No. A141048 (inactive)

E. Honors, Awards, Recognitions

2018	Resident Best Research Presentation UC Davis 7 th Annual Resident & Alumni Research Symposium
2018-19	Eversight Eye Bank Research Grant, University of Michigan Kellogg Eye Center
2019	Award for Excellence in Resident Teaching by a Fellow University of Michigan Kellogg Eye Center
2020	Eye Bank Association of America Physician Leadership Program awardee

F. Certifications

VISX STAR S4 IR Excimer Laser
WaveLight Allegretto Wave Excimer Laser
WaveLight EX500 Excimer Laser
WaveLight FS200 Femtosecond Laser

II. SURGICAL EXPERIENCE

Corneal transplantation	Descemet membrane endothelial keratoplasty (DMEK) Descemet stripping automated endothelial keratoplasty (DSAEK) Deep anterior lamellar keratoplasty (DALK) Penetrating keratoplasty (PKP) Temporary keratoprosthesis (Landers, Eckardt) Type I Boston Keratoprosthesis
Cataract surgery	Routine and femtosecond laser assisted phacoemulsification Optiwave Refractive Analysis (ORA), toric and premium IOLs Scleral-fixated IOLs (Yamane, glued, sutured)
Refractive surgery	LASIK PRK Visian Implantable Collamer Lens (certification 11/2021)
Ocular surface	Corneal collagen cross-linking Pterygium excision with conjunctival autograft Wide conjunctival excision with cryotherapy and alcohol Gundersen flap Amniotic membrane graft

III. TEACHING EXPERIENCE

As of September 2021, I have participated in the training of 3 cornea subspecialty fellows and 20 ophthalmology residents

A. University of Pittsburgh School of Medicine (2013-14)

Teaching to Teach

Participated in lectures series on effective medical education

Created and taught classes instructing 1st year medical students on physical exam techniques

B. University of California, Davis Health System (2017-18)

Chief Resident

Provided mentorship to 1st year ophthalmology class

Direct supervision of 1st year ophthalmology resident in consult clinic

C. University of Michigan Kellogg Eye Center (2018-19)

Cornea and External Diseases Fellow

Recipient of Award for Excellence in Resident Teaching by a Fellow

Preceptor for Cataract Surgery Wet Lab

Preceptor for DMEK Wet Lab

Preceptor for Microsurgery Skills Wet Lab

D. University of Iowa Carver College of Medicine (2019-)

Clinical Assistant Professor, Cornea and External Diseases

Supervision of Cornea Service fellow (1 annually)

Supervision of 1st and 3rd year residents, clinic and operating room (10 annually)

Supervision of University of Iowa Medical School students in clinic

Supervision of EyeRounds and Morning Rounds case presentations

Lectures to University of Iowa Medical School students on acute vision loss and red eye

Facilitator for University of Iowa Medical School case-based learning small group sessions

Facilitator (2019-2020) and lead organizer (2021) for preparation course for American Board of Ophthalmology Oral Exam
 Facilitator (2019) and organizer (2020) for Refractive Surgery Course and Wet Lab

IV. SCHOLARSHIP

A. Peer-Reviewed Original Publications

1. **Ling J**, Noori J, Safi F, Eller AW. Pneumatic retinopexy for rhegmatogenous retinal detachment in pseudophakia. *Seminars in Ophthalmology*. 2016:1-4.
2. Moisseiev E, **Ling J**, Morse LS. Leukemic optic nerve infiltration complicated by retinal artery and vein occlusions. *Retina*. 2017;37(2):e10.
3. **Ling J**, Bays D, Moshiri A, Thompson G, Mannis MJ. Favorable outcomes in *Coccidioides* endophthalmitis – a combined medical and surgical treatment approach. *Cornea*. 2017;36(11):1423-1425.
4. Mannis MJ, **Ling JJ**, Kyrillos R, Barnett M. Keratoconus and Personality – A Review. *Cornea* 2018;37(3):400-404.
5. **Ling J**, Stein J, Mian S, Rahman M, Woodward M. 10-year outcomes for a cohort of patients undergoing keratoplasty. In submission
6. Orlov S, De Lott L, Hamid M, **Ling J**, Woodward M. Representation of women and minorities in ophthalmic clinical trials. In submission
7. **Ling J**, Mian S, Stein J, Rahman M, Poliskey J, Woodward M. Impact of scleral contact lens use on the rate of corneal transplantation for keratoconus. *Cornea* 2021;40(1):39-42
8. Weinlander E, **Ling J**, Reddy A, Nallasamy N. Epithelial plaque formation secondary to recombinant human nerve growth factor. *Cornea* 2020;39(9):1174-6.
9. Goldstein AS, Janson BJ, Skeie JM, **Ling J**, Greiner MA. The effects of diabetes mellitus on the corneal endothelium: A review. *Survey of Ophthalmology* 2020;65(4):438-50.
10. **Ling J**, Kyrillos R, Burckart KA, Aldrich BT, Skeie JM, Schmidt GA, Conwell C, Ramirez T, Reed CR, Zimmerman MB, Greiner MA, Li JY. Optimizing visualization of DMEK tissue: assessing the impact of trypan blue exposure on stain duration and corneal endothelial cell function. *Cornea* 2020; Epub ahead of print. PMID: 32732698
11. Skeie JM, Aldrich BT, Nishimura DY, Schmidt GA, Zimmerman MB, **Ling JJ**, Naguib YW, Salem AK, Greiner MA. Ubiquinol supplementation of donor tissue enhances corneal endothelial cell mitochondrial respiration. *Cornea* 2020;39(10):1285-1290
12. Silverman JIM, Huffman JM, Zimmerman MB, **Ling JJ**, Greiner MA. Indications for wear, visual outcomes, and complications of custom imprint 3-D scanned scleral contact lens use. *Cornea*. Accepted for publication Sept 14, 2020
13. Cheng J, Jiang L, Morrow NC, Avdic A, Fairley JA, **Ling JJ**, Greiner MA. Recognition of atopic keratoconjunctivitis during treatment with dupilumab for atopic dermatitis. *Journal of the American Academy of Dermatology*. Accepted for publication Sept 16, 2020
14. Ramirez DA, Kam Y, Wilson CW, **Ling JJ**. Updates in the management of corneal ectasia. *International Ophthalmology Clinics*. Accepted for publication Nov 1, 2020
15. Kam YW, Ramirez DA, **Ling JJ**, Greiner MA, Sales CS. Performing DMEK with other surgical procedures: staged vs. combined approaches in straightforward cases. *Current Ophthalmology Reports*. In submission

B. Non Peer-Reviewed Original Publications

1. Colwell L, Diel R, Benage M, Jiang L, Greiner M, **Ling J**. Epithelial Downgrowth. EyeRounds.org. January 2020
2. Silverman JIM, Yu CY, Kam YW, **Ling JJ**. Mooren's Ulcer: A Diagnosis of Exclusion. EyeRounds.org. In submission
3. Ajarapu A, Wilson C, **Ling JJ**. Interstitial keratitis Secondary to Herpes Simplex Virus (HSV). EyeRounds.org. In submission

C. Presentations

1. **Ling J**, Farbman N, Conwell C, Ramirez T, Li J. Risk factors leading to endothelial damage in ultra-thin DSAEK graft preparation. Podium presentation at the 56th Eye Bank Association of America Scientific Symposium. June 2017, Salt Lake City, UT.
2. Farbman N, **Ling J**, Conwell C, Ramirez T, Li J. A simple 60-second swelling technique for more consistent ultrathin DSAEK graft preparation. Podium presentation at the 56th Eye Bank Association of America Scientific Symposium. June 2017, Salt Lake, UT.
3. **Ling J**, Kyrillos R, Conwell C, Ramirez T, Li J. Optimizing visualization of DMEK tissue: assessing the duration of trypan blue staining. Podium presentation at the Cornea and Eye Banking Forum. October 2018, Chicago, IL.
4. **Ling J**, Mian S, Rahman M, Stein J, Woodward M. Impact of scleral contact lens use on risk of requiring corneal transplantation for keratoconus. Podium presentation at ARVO Annual Meeting. May 1, 2019, Vancouver, Canada.
5. Hamid, M, Orlov S, De Lott L, **Ling J**, Woodward M. Representation of women and minorities in ophthalmic clinical trials. Poster presentation at the ARVO Annual Meeting. April 10, 2019, Vancouver, Canada
6. **Ling J**, Mian S, Rahman M, Stein J, Woodward M. Impact of scleral contact lens use on risk of requiring corneal transplantation for keratoconus. Podium presentation at Eye Banking Association of America. June 8, 2019. Scottsdale, Arizona.
7. Kam Y, Schmidt G, Greiner M, **Ling J**, Sales C. Examining the relationship between injector lumen diameter and exposed endothelial surface area and tissue conformation of DMEK tissue scrolls. Poster presentation at ARVO Annual Meeting. May 2021

D. Invited Lectures and Conference Presentations

- 2015 Residency Interview, UC Davis. 1st Year Surgical Experience
 2015 Professor Rounds, UC Davis. HSV Endotheliitis
 2016 Residency Interview, UC Davis. 2nd Year Surgical Experience
 2016 Professor Rounds, UC Davis. Corneal Clouding in a Newborn
 2016 Grand Rounds, UC Davis. Intraocular Coccidioides
 2016 Collaborative Cornea Case Conference, UC Davis. Acanthamoeba
 2017 Residency Interview, UC Davis. 3rd Year Surgical Experience
 2017 Professor Rounds, UC Davis. Management of Dislocated IOL
 2017 Grand Rounds, UC Davis. Ocular Surface Squamous Neoplasia
 2017 Collaborative Cornea Case Conference, UC Davis. Chemical and Thermal Corneal Burns
 2017 UC Davis 6th Annual Resident & Alumni Research Symposium. Risk factors leading to endothelial damage in ultra-thin DSAEK graft preparation
 2018 Grand Rounds, UC Davis. Necrotizing Scleritis
 2018 UC Davis 7th Annual Resident & Alumni Research Symposium. Optimizing visualization of DMEK tissue: assessing the duration of trypan blue staining
 2018 Grand Rounds, Univ of Michigan. Endothelial Downgrowth
 2018 Professor Rounds, Univ of Michigan. DALK interface keratitis
 2018 Professor Rounds, Univ of Michigan. Recurrent endothelial keratoplasty failure
 2019 Professor Rounds, Univ of Michigan. Recurrent fungal keratitis
 2018 Professor Rounds, Univ of Michigan. Limbal stem cell deficiency after TEN
 2019 91st Annual Spring Postgraduate Conference. Yamane surgical technique for optimizing cataract surgery outcomes
 2019 Des Moines Ophthalmic Society, invited talk. Eye Banking: Current Trends and Future Directions
 2019 Quad Cities Optometric Focus Conference, invited talk. Corneal Infiltrates
 2020 Annual Iowa Optometric Conference, invited talk. Advances in Corneal Surgery
 2021 Eye Bank Association of America Webinar, invited panelist. Establishing Relationships with Residency & Fellowship Programs

E. Wet Lab Teaching Experience

1. ASCRS 2021 (Las Vegas), invited instructor. DMEK Skills Transfer Lab

F. Book Chapters

1. Chapter 129: Eye Bank Preparation of Tissue for Endothelial Keratoplasty
Cornea, 5th Edition, Mannis and Holland

G. Interviews and Articles

1. U.S. News & World Report – Health: “Do I have conjunctivitis (pink eye) or keratitis?”. February 2020, <https://health.usnews.com/conditions/eye-disease/conjunctivitis/articles/keratitis-vs-conjunctivitis>
2. KCRG-TV interview: “Eye Care during the COVID-19 Pandemic”. April 2020, <https://www.kcrg.com/video/?vid=569726062>

H. Surgical Videos

1. Kam YK, **Ling JJ**. Big-bubble technique for DALK. AAO – Clinical and Surgical Videos. Sept 2020, <https://www.aao.org/clinical-video/big-bubble-technique-dalk>

V. SERVICE**A. Professional Affiliations**

- 2015- Member, American Academy of Ophthalmology
- 2017- Member, Eye Bank Association of America
- 2020- Member, Eye Bank Association of America Accreditation Board
- 2020- Member, Women in Ophthalmology
- 2021- Member, American Society of Cataract and Refractive Surgery

B. Hospital and Medical School Committees

- 2017-18 Resident Medical Staff Committee, Ophthalmology department representative
- 2020-21 EPIC Department Faculty Champion

VI. CAREER INTERESTS

Endothelial keratoplasty
Refractive laser eye surgery
Complex anterior segment reconstruction
Complex cataract surgery and secondary intraocular lens techniques
Eye banking

VII. HOBBIES

Cooking and barbequing
Hiking, national parks, traveling
Spending time with my husband, Brian, and our 6-month-old, Emily