Our mission is to eliminate suffering from eye disease, in our community and worldwide. We do so by practicing the state-of-the-art in ophthalmology, extending the state through scientific research, and by sharing our knowledge with our students, our colleagues, and our community.
MESSAGE FROM THE CHAIR

Our annual report provides an excellent opportunity to reflect on the past academic year, which has been a productive one for the University of Washington Department of Ophthalmology. In this, our 53rd year, we continue to make progress toward our mission — to alleviate suffering from eye disease in our community and in the wider world.

Clinically, our six sites — the UW Medicine Eye Institute, Puget Sound VA Medical Center, Harborview 4W Clinic, UWMC Eye Center, Seattle Children’s Hospital Ophthalmology Clinic, and UW Neighborhood Clinic Optometry — all saw their highest numbers of patient visits ever; in aggregate our sites saw over 60,000 patient visits last year. Patient satisfaction scores were among the highest in UW Medicine. Our Eye Institute was twice recognized this past year for having the highest patient satisfaction among Harborview outpatient services.

We were very fortunate to recruit three outstanding new ophthalmologists to the department this year. Dr. Lisa Olmos de Koo and Dr. Yewlin Chee have joined our vitreoretinal service and have already made substantial impacts in our patient care and education missions. And the department was very fortunate to recruit Dr. Andrew Stacey, a fellowship trained ocular oncologist, who is now providing his rare expertise to our patients with eye cancers.

On the education front, our programs remain very strong and competitive. We had over 500 applications this year for our five residency positions, and matched our top candidates from this group. Our graduating residents are going on to fellowships in glaucoma, cornea, and pediatric ophthalmology at outstanding programs. Both our graduating fellows — in oculoplastics and uveitis — are headed to academic positions this summer. We are delighted to have received accreditation for two additional fellowships for next year: a new cornea fellowship, and a second vitreoretinal fellow position.

This was a banner year for research achievement in the department as well. The department is on track to have its highest number of publications ever — over 80! These included some very high profile publications including Dr. Ram Sabesan’s discovery that most human cone photoreceptors don’t encode color information (published in Scientific Reports) and the identification by Dr. Jennifer Chao’s group of a new metabolic pathway (reductive carboxylation) that is disrupted in retinal degeneration (published in Proceedings of the National Academy of Sciences). Two of our clinician scientists — Drs. Jennifer Chao and Tueng Shen — received their first NIH R01 awards this year. We were particularly delighted to see three of our junior research faculty receive prestigious national awards. Dr. Sabesan was awarded the Career Development Award from Research to Prevent Blindness, and Drs. Kathryn Pepple and Mike Manookin were awarded Young Investigator Awards from the Alcon Research Institute.

We are truly grateful to our community for their continued support of our programs. We had a record year for philanthropy as well, with more than $2 million in gifts and foundation grants supporting our programs. Our Community Action Board, under the outstanding leadership of Dr. Fred Minifie, continued to serve as superb ambassadors to our larger community, and to provide substantial support for our programs.

I hope you will enjoy reading about our department’s accomplishments from this past year, and I thank you for your interest in University of Washington’s Department of Ophthalmology!

Russell N. Van Gelder, MD, PhD
Boyd K. Bucey Memorial Chair
UW Medicine Department of Ophthalmology
Our vision research scientists and clinician scientists are committed to the goal of improving diagnosis, treatment, and ultimately finding cures for diseases of the eye and visual system.

The Vision Science Center at UW Medicine’s South Lake Union research facility provides collaborative opportunities, bringing together scientists from across departments to work on research that will lead to the discovery of next-generation tools for diagnosing, preventing, and treating all manner of eye disease.

That’s how Dr. Aaron Lee describes the moment he knew would one day arrive, ushering in the era of big data. Big data is a term for data sets that are so large or complex that traditional data processing applications are inadequate to deal with them. Dr. Lee’s research interests lie in the intersection of large clinical medical datasets and using non-traditional computational techniques to both analyze and visualize the results.

In their paper *Big data visualizations of disparities in US cataract surgery delivery*, Dr. Lee and his spouse and fellow faculty member, Dr. Cecilia Lee, analyzed patterns in cataract care delivery at the national level by combining the US Census and Centers for Medicare and Medicaid Services (CMS) Medicare Provider Utilization and Payment Data. The analyses were performed with state-of-the-art computer methods. Their data showed there is a significant discrepancy in cataract delivery across the country based on geographic and economic regions. They further concluded that publicly available Medicare datasets are valuable tools that can delineate public access and utilization patterns in the US healthcare system.

Big data is advantageous in analyzing and anticipating health trends. Analyses in these areas provide an enhanced understanding of short and long-term outcomes for populations and individuals, leading to more effective treatments and cures.

“When I heard that all the statistician’s computers were crashing because they couldn’t handle the data, I knew the era of big data had arrived.”

That’s how Dr. Aaron Lee describes the moment he knew would one day arrive, ushering in the era of big data. Big data is a term for data sets that are so large or complex that traditional data processing applications are inadequate to deal with them. Dr. Lee’s research interests lie in the intersection of large clinical medical datasets and using non-traditional computational techniques to both analyze and visualize the results.

In their paper *Big data visualizations of disparities in US cataract surgery delivery*, Dr. Lee and his spouse and fellow faculty member, Dr. Cecilia Lee, analyzed patterns in cataract care delivery at the national level by combining the US Census and Centers for Medicare and Medicaid Services (CMS) Medicare Provider Utilization and Payment Data. The analyses were performed with state-of-the-art computer methods. Their data showed there is a significant discrepancy in cataract delivery across the country based on geographic and economic regions. They further concluded that publicly available Medicare datasets are valuable tools that can delineate public access and utilization patterns in the US healthcare system.

Big data is advantageous in analyzing and anticipating health trends. Analyses in these areas provide an enhanced understanding of short and long-term outcomes for populations and individuals, leading to more effective treatments and cures.
Dr. Lee does double duty as a retinal specialist and a computer scientist, making him uniquely qualified to employ big-data computing techniques in his field. He has developed next-generation programs and innovative visualization techniques and recently completed a study that allowed him to assess the efficacy of different treatment methods over time for patients with age related macular degeneration (AMD). Dr. Lee examined more than 200 million pieces of data from 18,448 patients being treated for AMD in the United Kingdom and was able to quantify the effect anti-VEGF (vascular endothelial growth factor) therapy has on preventing blindness in patients with AMD. He was also able to identify new risk factors for surgical complications in AMD patients undergoing cataract surgery.

Diabetes affects 422 million people with each individual requiring an annual screening for diabetic eye disease. The significant numbers highlight a cumbersome and labor-intensive process. Dr. Lee has developed the first evaluation software for automated diabetic retinopathy screening that may greatly ameliorate this difficulty.

With future support, Dr. Lee will acquire the requisite hardware and recruit developers to set up centers employing this innovative software to alleviate the protracted process of manual screenings. Dr. Lee is the first researcher permitted use of patient data collected by the U.S. Department of Veteran’s Affairs hospitals in vision research. He will analyze the data from diabetic retinopathy patients and AMD patients to reveal new risk factors for ocular complications associated with diabetes. Dr. Lee hopes this deeper understanding of diabetic eye diseases will lead to new therapeutic targets. The use of big data in medicine may ultimately lead to bespoke health care tailored to answer questions like “What is the best treatment for my specific health issue.”

Aaron Lee, MD, MSc
Assistant Professor

Dr. Aaron Lee earned a bachelor’s degree from Harvard University and a medical degree from Washington University in St. Louis, where he also completed a master’s degree in clinical investigations, an internship at St. John’s Mercy Medical Center and an ophthalmology residency at Washington University, as well as two fellowships (one in medical retina at Moorfields Eye Hospital, the other in vitreoretinal surgery at University of British Columbia). Dr. Lee joined the faculty at UW Medicine in 2015, and he sees patients with retinal disease at the VA Puget Sound Eye Clinic.
Jennifer Chao, MD, PhD
Associate Professor

The Chao Lab is investigating potential applications of induced pluripotent stem cells (iPSCs) for treating eye diseases and identifying new drug therapies for eye disease. Like many faculty at UW Medicine, Jennifer Chao, Ph.D., M.D., a specialist in retinal diseases, sees patients and conducts research. She hopes that precision-medicine approaches will help her learn how to prevent retinal degeneration.

Ethan Buhr, PhD
Research Assistant Professor

Dr. Buhr’s long-term interests center around ways in which circadian oscillators entrain to their environments. He studies the pathways by which mammalian circadian clocks are synchronized to light.
Dr. Lee’s research interests are focused in diseases of the retina and uveitis. She is dedicated in improving knowledge on pathogens’ role in various ocular conditions and understanding the clinical outcome. She is also interested in using non-invasive imaging modalities to find new biomarkers to predict the outcomes of different retinal diseases. Dr. Lee recently received a prestigious K23 clinician-investigator award from the National Institutes of Health.

**Michael B. Manookin, PhD**  
*Assistant Professor*

Research in the Manookin lab is focused on the computations performed by neural circuits, the mechanistic underpinnings of those computations, and their effects on perception. The macaque monkey retina serves as the ideal model for understanding how neural circuits transform a visual stimulus into a behavioral percept. The lab’s first major goal is to work out the circuitry of the macaque monkey retina — a model system that is essentially identical to the human retina. The electrical responses of retinal cells to novel visual stimulation are measured and the findings are linked to human perception using psychophysical measurements. The Manookin lab also collaborates with the Van Gelder lab to test the efficacy of techniques for restoring vision to the blind.
Kathryn L. Pepple, MD, PhD
Assistant Professor

Dr. Pepple’s laboratory is interested in understanding the pathogenesis of ocular inflammation, and developing new therapies to treat patients with uveitis. Her lab is also interested in novel applications of advanced imaging modalities such as optical coherence tomography (OCT) and IVIS in clinical and pre-clinical studies of uveitis. Dr. Pepple recently received a prestigious K08 Clinician-Scientist training award from the National Institutes of Health.

Jay Neitz, PhD
Bishop Professor

Maureen Neitz, PhD
Ray Hill Professor

The Neitz Labs are developing genetic tests and treatments for common vision disorders, and investigating the retinal circuitry for vision. Jay and Maureen Neitz collaborate in their studies of the visual system, taking a multidisciplinary approach that uses techniques ranging from molecular genetics to human and animal psychophysics. Major focus areas include developing gene therapy for cone-based vision disorders, investigating the role of genetic variability in the cone photo pigments in common eye diseases including AMD, myopia, and glaucoma, understanding the physiological basis for color perception. In addition, the Neitzes are developing genetic tests to identify individuals at risk for developing common eye diseases so that therapeutic interventions can be started before symptoms appear.
The Shen Lab is developing artificial corneas and ocular biosensors for preventing blindness on a global scale.

Corneal opacity is a major cause of blindness. Using donor corneas is often not feasible due to availability and cultural barriers. Artificial corneas developed to date have shown serious limitations. The development of a new biomaterial structure with greatly improved sclera tissue integration and excellent optics shows potential to overcome many of these issues and allow construction and application of an improved prosthesis that can eventually be used to restore sight to a much wider population than is possible now. The Shen lab is also developing microelectronic wi-fi biosensors to allow physicians to monitor the health of patients remotely. The overarching goal is to treat global blindness by leveraging technological advancements in polymer sciences.

Tueng T. Shen, MD, PhD
Lions’ Professor in Ophthalmology, Bioengineering & Global Health/Director, Refractive Surgery Center

The UW Medicine Eye Institute’s new Retina Center, located at UW Medicine at South Lake Union, will be the first and only facility focused on clinical research for vision loss in the five-state region of Washington, Wyoming, Alaska, Montana and Idaho.
EVIDENCE CHALLENGES COMMON NOTIONS ON COLOR VISION

How individual cones in the eye’s retina elicit color sensations held some surprises for scientists

BY LEILA GRAY
PUBLISHED IN UW HEALTH SCIENCES NEWSBEAT 09.19.2016

A study of people’s sensations from light striking single cones in the eye’s retina is making scientists rethink how we see the world.

“We are hoping to learn how color is actually processed in the retina,” said Dr. Ramkumar Sabesan, a UW Medicine vision scientist and assistant research professor of ophthalmology at the University of Washington. “Such information would be helpful to efforts under way to find treatments for all retinal diseases.”

Sabesan recently came to the UW from the University of California Berkeley, where he and his colleagues conducted color vision work published Sept. 14 in Science Advances. The co-first author on the article was Brian Schmidt, who did his dissertation work in Ophthalmology and Neuroscience at UW Medicine before proceeding to Austin Roorda’s lab at UC Berkeley for postdoctoral training.

The visual system reconstructs a representation of what is going on in front of our faces. But how does it make sense of the multiplex of information streaming in from our mosaic of light-receiving nerve cells?

The eye’s light receptors are sensitive to intensity — brightness and dimness. Depending on its type, a photoreceptor is also sensitive to certain wavelengths of light — long, medium and short.

The researchers studied these cones, which are actually individual nerve cells, as a gateway to better understand how the nervous system is linked to behavior at the single unit level. In their study, they shone small spots of light on selected, individual cones. They then recorded the type of sensations the person reported.
The scientists observed two distinct populations of cones. One group, the most numerous, signaled white or achromatic sensation. The second group, the cones that signaled color, were far fewer.

Sabesan said that the findings may reflect an evolutionary trade off favoring high-resolution non-color vision over the ability to see color at a small spatial scale.

“In an object is marked by its light and dark edges and for that we need high resolution,” Sabesan said. “while the color fills in the space between the edges like a coloring book.”

In the recent study, the researchers saw that red sensations were driven by long-wavelength sensitive cones, and green by medium-wave length cones. However, both types of cones could elicit achromatic sensations and did so more often.

Furthermore, days, weeks and months later, in repeat testing, each cone was consistent in the type of sensation it generated. The study also analyzed the spatial distribution of cones that generated certain sensations. The researchers observed that the classical arrangement of cones in the retina previously believed to be most efficient in producing color really did not have that effect. Those cones were no more likely to signal color perception.

Overall, the researchers concluded that the results of the study was consistent with the idea that the nervous system has separate pathways for encoding high-resolution, white/achromatic perceptions, and low resolution, colorful sensations. To conduct this study on individual cones, the researchers employed methods generally reserved for imaging stars and planets. Just as astronomers correct for the Earth’s atmosphere, the vision researchers used adaptive optics to offset aberrations produced by the eyeball. Also, even when a person is attempting to fix his gaze, the retina is always moving, making it difficult to hone in repeatedly on the same, single cone. The researchers zoomed in on their targets with high-speed retinal tracking.

“We got to a portion of the retina by following landmarks, like in a map, and picked out one or more cones,” Sabesan said. From studies such as these, Sabesan and his team hope to develop ways to test new therapies for vision.

For example, he said, his UW Medicine colleagues Jay and Maureen Neitz are developing gene therapies for color blindness. Being able to record the sensations produced by individual cones would help the researchers see in which cells the therapeutically implanted genes were activated, and what colors they enable the individual to see.

“An impediment to translating laboratory results into clinical treatments is the ability to measure the new therapies in action inside the eye and within the connective circuitry,” Sabesan said. “Our goal,” Sabesan said, “is to develop better outcome measures for vision therapies to help our colleagues who are seeking restorative treatments — stem cells, gene therapy, or prosthetics for eye diseases.”

The research was supported by grants from the National Institutes of Health/National Eye Institute, Fight for Sight, the American Optometric Foundation, the Burroughs Wellcome Fund and Research to Prevent Blindness.

The paper in Science Advances is titled “The elementary representation of spatial and color vision in the human retina.”

Ramkumar Sabesan, PhD

Research Assistant Professor

Dr. Sabesan earned his Bachelor’s degree in Engineering Physics from the Indian Institute of Technology, Delhi. He earned his Ph.D. at the Institute of Optics, University of Rochester developing non-invasive optical tools for the study and treatment of corneal pathologies. Following his doctorate, he did a postdoctoral fellowship at the University of California, Berkeley studying the retinal basis of color perception using advanced high-resolution imaging. He joined the Department of Ophthalmology in 2015.
The Vision Core Lab at UW Medicine South Lake Union provides shared instrumentation, expertise, and services to NEI funded vision Scientists

**The Core Grant for Vision Research** provide groups of investigators who have achieved independent National Eye Institute (NEI) funding with additional, shared support to enhance their own and their institution’s capability for conducting vision research. Secondary objectives of this program include facilitating collaborative studies and attracting other scientists to research on the visual system.

The Vision Core Grant is comprised of three modules, each of which offers shared instrumentation, and module scientists to help investigators. The Cellular Module includes a JEOL 1230 Transition Electron Microscope, Olympus FV1000 Confocal microscope, a Nikon Widefield microscope, and a serial block face scanning electron microscope (Gatan 3View and Sigma VP SEM). The Systems Module includes a shared electrophysiology rig, ERG instrumentation, a Micron II fundus Imaging system for mice, and a RetCamII imaging system for animal research. The Molecular Module includes a custom antibody making service, help with immunohistochemistry, intraocular injection equipment, and access to several specialty centrifuges.
VISION SCIENCE RESEARCH FACULTY & ASSOCIATES

Ethan Buhr, PhD  
Research Assistant Professor (Ophthalmology)

Susan E Brockerhoff, PhD  
Adjunct Professor (Biochemistry)

John I. Clark, PhD  
Adjunct Professor (Biological Structure)

Jennifer Chao, MD, PhD  
Associate Professor (Ophthalmology)

Ione Fine, PhD  
Adjunct Professor (Psychology)

Jim Hurley, PhD  
Adjunct Professor (Biochemistry)

Murray Johnstone, MD  
Clinical Professor (Ophthalmology)

C. Dirk Keen, MD, PhD  
Adjunct Associate Professor (Pathology)

John P. Kelly, PhD  
Affiliate Assistant Professor Seattle Children's Hospital

Aaron Lee, MD, MSc  
Assistant Professor (Ophthalmology)

Cecilia S. Lee, MD, MS  
Assistant Professor (Ophthalmology)

Mike Manookin, PhD  
Assistant Professor (Ophthalmology)

Ann Milam, PhD  
Professor Emerita, (Ophthalmology)

Mike Mustari, PhD  
Research Professor (Ophthalmology)

Jay F. Neitz, PhD  
Bishop Professor (Ophthalmology)

Maureen E. Neitz, PhD  
Ray Hill Professor (Ophthalmology)

Roberta Pagon, MD  
Adjunct Professor (Clinical Genetics, Pediatrics)

Kathryn Peppele, MD, PhD  
Assistant Professor (Ophthalmology)

Thomas A. Reh, PhD  
Adjunct Professor (Biological Structure)

Frederick M. Rieke, PhD  
Adjunct Professor (Physiology and Biophysics)

John C. Saari, PhD  
Professor Emeritus (Ophthalmology)

Ram Sabesan, PhD  
Research Assistant Professor (Ophthalmology)

Tueng T. Shen, MD, PhD  
Professor (Ophthalmology)

Russell Van Gelder, MD, PhD  
Boyd K. Bucey Professor and Chair (Ophthalmology)

Ruikang “Ricky” Wang, PhD  
Adjunct Professor (Bioengineering)

Rachel Wong, PhD  
Adjunct Professor (Biological Structure)

Jing Zhang, PhD  
Adjunct Professor (Pathology)
Clinical trials and other grants are the tools of translation between patient care and research

Diabetic Retinopathy Clinical Research (DRCR)
To conduct clinical trials and epidemiological studies for diabetic and standardize data collection methods, testing procedures, and treatment techniques for use in the anticipated multiple protocols to be conducted.

A Prospective Case-crossover Study to Evaluate the Possible Association Between the Use of PDE5 Inhibitors and the Risk of Acute Nonarteritic Anterior Ischemic Optic Neuropathy
Study H6D-MC-LVHQ is an observational, non-interventional, multi-center, prospective, case-crossover study to evaluate the possible association between the use of phosphodiesterase type 5 (PDE5) inhibitors and the risk of acute nonarteritic anterior ischemic optic neuropathy (NAION) in males. Subjects with newly diagnosed NAION will be asked via a structured questionnaire about their use of PDE5 inhibitors and other risk factors prior to the onset of their vision loss. In this case-crossover study, each subject (case) serves as its own control.

Personalized Medicine for Macular Degeneration: High Throughput Screening for Small Molecule Therapeutics
The goal of this study is to create models of retinal degenerative diseases (e.g. AMD, RP, Stargards, and other retinal diseases) that can be used to discover potentially therapeutic drugs. In order to do this, we take blood samples from people with and without retinal degenerative diseases to create stem cells and grow them into retinal cells to study in the laboratory.

Non-invasive 3D optical imaging of retinal microcirculations
Hypothesize that OMAG can be developed to non-invasively image, quantify, and characterize retinal blood perfusion and at a resolution of capillary level. The immediate outcome of this research is a new imaging tool capable of simultaneously reporting volumetric microstructures and blood flow at capillary-level resolution. The technology will be useful in both clinic and research that aim to improve our understanding of the physiology and pathology of microcirculations, ultimately facilitating diagnosis, monitoring, and therapeutic interventions of retinal diseases that have vascular involvement.

Microbiome analysis of the ocular surface in dry eye disease
Dry eye syndrome (DES) is a common ocular condition typified by irritation and breakdown of the corneal epithelium. Inflammatory mediators have been shown to underlie the pathophysiology of this condition, but the trigger for their expression is unknown. Recent work has suggested that the ocular surface microbiome is far more complex than previously appreciated. In this grant, we propose quantitatively analyzing the ocular surface microbiome of dry eye subjects and unaffected control subjects using representational karyotyping to determine if subjects with dry eye syndrome have consistent changes in their microbiome compared with unaffected individuals.

Myopia risks and disease mechanisms
To address the stated objective in NEI’s Health Disparities Strategic Plan to “determine the etiology of human myopia and identify the risk factors associated with this and other refractive errors so as to prevent their occurrence or progression.” Specific aim 1 will investigate the role of L:M cone ratio in the etiology of myopia by comparing ratios across ethnic groups particularly at risk for myopia. Aim 2 will evaluate the role of cone ratio, axial length, and L and M cone opsin gene variants in the etiology of myopia. Aim 3 will evaluate the potential of lenses that block specific wavelengths of light and introduce image blur in slowing axial elongation in myopic children.
Genes and visual pigments of red-green color vision

This application focuses on a unique sub system within the primate visual system where there are exceptional opportunities to discover the workings of neural circuitry responsible for specific percepts. It is widely accepted that S-cone input to S-cone bipolar cells and in turn to small bistratified ganglion cells—the so-called “S-ON/koniocellular pathway”—is the important circuit for blue-yellow color vision; however, the fact that the spectral response properties of small bistratified ganglion cells measured physiologically do not match those of the blue-yellow opponent channel measured perceptually is an unresolved problem for the idea that the small bistratified ganglion is the biological substrate blue perception.

Expression and function of cone pigment genes

The long-term goal of this research program is to understand the role of amino acid sequence polymorphisms in the long- and middle-wavelength cone opsins in vision disorders. All known amino acid substitutions observed in human rhodopsin or in the human S cone opsin are associated with photoreceptor abnormalities and disease. The question we will address in this proposal is—what is the role of amino acid substitutions in the L and M cone opsins in vision disorders?

Nano Grant—Function of nano-medical compounds in the treatment of blindness

Photo switchable channel blockers for treatment of blindness

Flare photometry in uveitis patients

The role of the innate and adaptive immune system in a novel mouse model uveitis

Double-Masked Randomized Sham-Controlled Trial of QPI-1007 Delivered by a Single Intravitreal Injection to Subjects with Acute Primary Angle-Closure Glaucoma (APACG)

Diversity and dynamic stability of the ocular surface microbiome

Human RPE metabolism and metabolite transport

Optical coherence elastography of corneal dynamics

K23 Grant—The ocular surface microbiome in potentially infectious ophthalmic disease

SCORE2 (Clinical Trial)—SCORE2

F32 Grant—Functional imaging of retinal ganglion cells receiving S-cone inputs using viral-delivered arclight
PATIENT CARE

The Eye Institute opened in the Ninth and Jefferson Building at Harborview Medical Center in July 2009 and has over 25,000 square feet of clinic space. It is the flagship clinic of the UW Medicine Department of Ophthalmology. Other sites associated with the department are located at Harborview Medical Center, University of Washington Medical Center, Seattle Children’s Hospital and Medical Center, and the Veterans Administration Puget Sound Medical Center.

UW MEDICINE EYE INSTITUTE FAST FACTS

<table>
<thead>
<tr>
<th>PATIENT CARE</th>
<th>FACULTY</th>
<th>EDUCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>35,000</strong></td>
<td><strong>51</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>patients per year</td>
<td>faculty members</td>
<td>residents</td>
</tr>
<tr>
<td><strong>+ 2,500</strong></td>
<td><strong>7</strong></td>
<td><strong>9,000</strong></td>
</tr>
<tr>
<td>surgical procedures</td>
<td>Ph.D. scientists</td>
<td>hours of training</td>
</tr>
<tr>
<td>Physicians in the Eye Institute see about 35,000 patients per year and perform more than 2,500 surgical procedures.</td>
<td>The Department of Ophthalmology currently has 51 faculty members, including 7 Ph.D. scientists and 6 faculty who hold both MD and PhD degrees.</td>
<td>The department educates 15 resident ophthalmologists through its ACGME accredited training program, provides 9,000 hours of training, and has an pathology/research rotation.</td>
</tr>
</tbody>
</table>

The Eye Institute covers the full range of ophthalmic specialties — from retinal diseases, to glaucoma, to neuro-ophthalmological diseases, to elective services.

Faculty members of UW Ophthalmology also serve adult patients at other UW Medicine entities, pediatric patients at Seattle Children’s Hospital, and veterans at the Puget Sound Veterans Administration Health Care System.

The UW Medicine Eye Institute is the only full-service ophthalmology trauma service in the states of Washington, Wyoming, Alaska, Montana and Idaho.

The department sponsors 4 fellowships, specializing in medical retina and vitreoretinal surgery, oculoplastics, uveitis, and pediatric ophthalmology.
UW MEDICINE OPHTHALMOLOGY PATIENT CARE FACULTY

COMPREHENSIVE

**Eissa Hanna, MD**
Dr. Hanna is a UW assistant professor of ophthalmology, attending physician at the UW Medicine Eye Institute and director of Consult Services at Harborview Medical Center’s 4West Clinic.

**EDUCATION**
BS – University of California, Davis
MD – University of California, Davis Residency – Ophthalmology, Pennsylvania State University Fellowship – Ophthalmic Pathology, Harvard University

**PATIENT CARE PHILOSOPHY**
Dr. Hanna believes that the patient-physician relationship is built on trust and maintained through patient education. Ultimately, it is both the patient and the physician who work together for the desired outcome.

**SCOPE OF CARE**
Dr. Hanna’s clinical interests include ocular trauma, standard and complicated cataracts, macular degeneration, glaucoma, diabetic retinal disease, ocular surface disease, eyelid disorders and ophthalmic pathology.

**RESEARCH FOCUS**
Dr. Hanna’s research focuses on immunology of ocular trauma and autoimmune related ophthalmic conditions.

**Anne Ko, MD**
Dr. Ko is an acting UW assistant professor of ophthalmology and attending physician at the UW Medicine Eye Institute at Harborview Medical Center.

**EDUCATION**
BS – Brown University
MD – Brown University Residency – Ophthalmology, New York Eye and Ear Infirmary Fellowship – Cornea and External Disease, University of Southern California (Doheny Eye Institute)

**PATIENT CARE PHILOSOPHY**
Dr. Ko’s role as a physician involves giving patients the information they need to make an informed decision about their care.

**SCOPE OF CARE**
The diagnosis and management of comprehensive and corneal eye conditions such as cataract, dry eye, glaucoma, and ocular surface disease.

**RESEARCH FOCUS**
Dr. Ko’s primary research focus on improving resident education.

**Deborah L. Lam, MD**
Dr. Lam is a UW associate professor of ophthalmology, attending physician and chief of service at the VA Puget Sound Health Care System.

**EDUCATION**
BA – Northwestern University, Illinois
MD – Northwestern University, Illinois Residency – Ophthalmology, University of Washington

**PATIENT CARE PHILOSOPHY**
Dr. Lam believes the foundation of the patient-physician relationship is communication. Her care is focused on the needs of her patients and their families.

**SCOPE OF CARE**
Dr. Lam’s clinical interests include the diagnosis and treatment of a comprehensive range of eye conditions. These include such entities as cataract, glaucoma, diabetic retinopathy, macular degeneration, ocular surface diseases and eye trauma.

**RESEARCH FOCUS**
Dr. Lam’s research focuses on resident education, cataract surgery and uveitis.
**Parisa Taravati, MD**

Dr. Taravati is a UW associate professor of ophthalmology, attending physician at the UW Medicine Eye Institute at Harborview Medical Center and director for the Eye Center at UW Medical Center.

**EDUCATION**

BS – University of Iowa  
MD – University of Iowa  
Residency – Ophthalmology, University of Iowa

**PATIENT CARE PHILOSOPHY**

Dr. Taravati believes in educating her patients on their eye conditions and allowing them to actively participate in their medical care.

**SCOPE OF CARE**

Dr. Taravati is a clinician educator and comprehensive ophthalmologist. She manages a wide range of eye conditions, including dry eye, blepharitis, cataracts, glaucoma, and color blindness.

**RESEARCH FOCUS**

Dr. Taravati’s research interests include color blindness, resident education, and cataracts.

---

**Jennifer T. Yu, MD, PhD**

Dr. Yu is a UW clinical associate professor of ophthalmology and an attending physician for Harborview Medical Center’s 4 West Clinic.

**EDUCATION**

BS – University of Michigan  
MD – Washington University  
PhD – Washington University  
Residency – Ophthalmology, Washington University School of Medicine

**PATIENT CARE PHILOSOPHY**

Dr. Yu believes good patient care starts with listening to the patient and addressing his or her concerns. She also believes that health care is a partnership between the physician and the patient. This involves patient education and helping the patient make informed decisions.

**SCOPE OF CARE**

Dr. Yu’s clinical interests include comprehensive eye care, including cataracts and cataract surgery, dry eyes, blepharitis glaucoma, diabetes in the eye and macular degeneration.

---

**Michael Banitt, MD, MHA**

Dr. Banitt is a UW associate professor of ophthalmology and attending physician for the UW Medicine Eye Medicine Institute at Harborview Medical Center.

**EDUCATION**

BS – St. Louis University  
BA – St. Louis University  
MD – Wayne State University  
MHS – St. Louis University of Public Health  
Residency – Ophthalmology, New York Eye and Ear Infirmary Fellowship – Cornea and External Disease, University of Michigan (Kellogg Eye Institute); Glaucoma, University of Miami (Bascom Palmer Eye Institute)

**PATIENT CARE PHILOSOPHY**

Dr. Banitt’s goal is to apply the best scientific evidence and most appropriate treatments, and to help the patient make the best medical decision they are able to make with the latest information.

**SCOPE OF CARE**

Dr. Banitt specializes in cataracts, cornea and glaucoma.

**RESEARCH FOCUS**

Clinical trials in the area of cornea and glaucoma surgery to find better improvements to sight.
Hoon C. Jung, MD
Dr. Jung is a UW assistant professor of ophthalmology and attending physician at the VA Puget Sound Health Care System.

EDUCATION
BS – Cornell University
MD – University of Rochester
Residency – Ophthalmology, University at Buffalo
Fellowship – Cornea and External Disease, University of Rochester

PATIENT CARE PHILOSOPHY
Each visit between a physician and patient should lead one step further in the pursuit of improved understanding of health and delivery of personalized care.

SCOPE OF CARE
Dr. Jung specializes in treatment of cataract and corneal diseases.

RESEARCH FOCUS
Dr. Jung has specific interest in methods to improve and advance care in the federal system.

Tueng T. Shen, MD, PhD
Dr. Shen is a UW Lion’s professor of ophthalmology, an adjunct professor in bioengineering as well adjunct professor of global health. She is the attending physician at the UW Medicine Eye Institute at Harborview Medical Center and director of the refractive surgery center at UW Medical Center.

EDUCATION
BA – Wellesley College and Oxford University, Oxford, England
MD – Harvard University
PhD – Massachusetts Institute of Technology
Residency – Ophthalmology, Harvard University
Fellowship – Cornea, Refractive and External Disease, University of Utah (Moran Eye Center)

PATIENT CARE PHILOSOPHY
Dr. Shen is committed to delivering the best eye care possible by providing the most advanced treatment options and by developing better technologies to restore vision for patients with challenging corneal conditions. She strongly believes that patients deserve a physician who listens, keeps them well-informed and is a partner in accomplishing the best treatment plan customized to each patient’s needs.

SCOPE OF CARE
Dr. Shen’s clinical interests include refractive surgery, cataract surgeries and medical and surgical management of corneal disorders.

RESEARCH FOCUS
Dr. Shen’s research group focuses on developing innovative solutions to treating global blindness by leveraging technological advancements in polymer sciences, microelectronics and modern imaging techniques.

Philip P. Chen, MD
Dr. Chen holds the Grace E. Hill Chair in Vision Research. He is a UW professor, attending physician and chief of service for the UW Medicine Eye Institute at Harborview Medical Center, as well as chief of service at UW Medical Center.

EDUCATION
BS – Stanford University
MD – Yale University
Residency – Ophthalmology, University of Southern California (Doheny Eye Institute)
Fellowship – Glaucoma, University of Miami (Bascom Palmer Eye Institute)

PATIENT CARE PHILOSOPHY
Dr. Chen’s professional passion is to prevent blindness caused by glaucoma.

SCOPE OF CARE
Dr. Chen’s clinical interests include the diagnosis, management and surgical treatment of all types of glaucoma and cataracts.

RESEARCH FOCUS
Dr. Chen’s research focuses on the outcomes of glaucoma treatment, risk factors for glaucoma progression and screening for glaucoma.
Shivali Menda, MD
Dr. Menda is a UW acting assistant professor of ophthalmology and attending physician at the UW Medicine Eye Institute at Harborview Medical Center.

EDUCATION
BS - University of Washington
MD – Oregon Health & Science University
Residency – Ophthalmology, University of California, San Francisco
Fellowship – Glaucoma, Oregon Health & Science University (Casey Eye Institute) and Devers Eye Institute

PATIENT CARE PHILOSOPHY
Dr. Menda wants to provide all of her patients with personalized and high-quality care. She believes that education is at the core of partnership that she strives to have with all of her patients.

SCOPE OF CARE
Dr. Menda focuses on the medical and surgical treatment of glaucoma as well as comprehensive ophthalmology and complex cataract surgery.

RESEARCH FOCUS
Dr. Menda’s research focuses on quality improvement in ophthalmology and also the use of imaging to better understand the pathogenesis and detection of glaucoma.

Raghu Mudumbai, MD
Dr. Mudumbai is a UW associate professor of ophthalmology and an attending physician at the UW Medicine Eye Institute at Harborview Medical Center.

EDUCATION
BA – City University of New York
MD – State University of New York
Residency – Ophthalmology, State University of New York Health Science Center
Fellowships – Glaucoma, New York Eye and Ear Infirmary; Neuro-Ophthalmology, University of Minnesota

PATIENT CARE PHILOSOPHY
Dr. Mudumbai takes a patient-centered approach through extensive education of their condition, thereby enabling the patient to be a part of a team that provides optimal care.

SCOPE OF CARE
Dr. Mudumbai’s clinical interests include the medical and surgical care of cataract, glaucoma, neuro-ophthalmology and adult strabismus.

RESEARCH FOCUS
Dr. Mudumbai’s research focus is on optic nerve imaging in both glaucoma and neuro-ophthalmic conditions. He also is interested in educational research that looks to improve resident training.

Joanne C. Wen, MD
Dr. Wen is a UW assistant professor of ophthalmology and attending physician at the UW Medicine Eye Institute at Harborview Medical Center.

EDUCATION
BA – Harvard University
MD – University of California, Los Angeles
Residency – Ophthalmology, University of California, Los Angeles
Fellowship – Glaucoma, Duke University

PATIENT CARE PHILOSOPHY
Dr. Wen believes in educating and working with her patients to develop a management plan that maximizes the prevention of glaucoma-related blindness.

SCOPE OF CARE
Dr. Wen’s clinical interests include the medical and surgical management of glaucoma and cataracts.

RESEARCH FOCUS
Dr. Wen’s research interests include improving our understanding of glaucoma pathogenesis at both the level of aqueous outflow as well as the optic nerve.
Jennifer Chao, MD, PhD
Dr. Chao is a UW associate professor and attending physician at the UW Medicine Eye Institute at Harborview Medical Center.

EDUCATION
BS – Stanford University
MD – Yale University
PhD – Yale University
Residency – Ophthalmology, University of Southern California
Fellowship – Vitreo-Retinal Disease & Surgery, University of Southern California

PATIENT CARE PHILOSOPHY
Dr. Chao’s goal is to provide the most advanced and compassionate care to each of her patients with the goal of improving their quality of life.

SCOPE OF CARE
Dr. Chao’s clinical interests include age-related macular degeneration, hereditary retinal degenerations (e.g., retinitis pigmentosa), retinal detachments and tears, diabetic retinopathy, macular holes, puckers and edema, myopic macular degeneration, central serous retinopathy, endophthalmitis, and retinal vascular occlusive diseases.

RESEARCH FOCUS
Dr. Chao’s research group studies inherited retinal degenerations and examines potential treatment modalities. Specific projects include the generation of stem cells from persons with inherited retinal degenerations (called induced pluripotent stem cells or IPSCs), generating retinal cells from these IPSCs, and studying the “diseased” retinal cells in culture. Ultimately, the group is focused on discovering new drug therapeutics that could benefit those affected by inherited retinal degenerations.

Yewlin Chee, MD
Dr. Chee is a UW assistant professor of ophthalmology and attending physician at the UW Medicine Eye Institute at Harborview Medical Center.

EDUCATION
AB – Princeton University
MD – University of Pennsylvania
Residency – Ophthalmology, Harvard University
Fellowship – Vitreo-Retinal Disease & Surgery, Harvard University

PATIENT CARE PHILOSOPHY
Dr. Chee aims to provide excellent care for her patients by first understanding how their retinal disease affects their quality of life, and through education to have a clear understanding of their condition and treatment options. Through this, a personalized treatment plan using the latest appropriate medical and surgical therapies can be developed.

SCOPE OF CARE
Dr. Chee specializes in medical and surgical vitreoretinal disease including diabetic retinopathy, age related macular degeneration, retinal vein occlusion, macular edema, epiretinal membrane, macular hole, retinal detachment, and ocular trauma.

RESEARCH FOCUS
Dr. Chee’s research interests include posterior segment manifestations of ocular trauma and the optimization of resident and fellow ophthalmic training.

James L. Kinyoun, MD
Dr. Kinyoun is a UW professor of ophthalmology and attending physician at the UW Medicine Eye Institute at Harborview Medical Center.

EDUCATION
BS – University of Nebraska
MD – University of Nebraska
Residency – Ophthalmology, Medical College of Wisconsin
Fellowship – Vitreo-Retinal Disease & Surgery, University of Minnesota

PATIENT CARE PHILOSOPHY
Dr. Kinyoun believes that patient understanding is key to a successful, ongoing, long-term patient-physician relationship.

SCOPE OF CARE
Dr. Kinyoun’s clinical interests include care of retina and vitreous diseases such as retinal detachment, diabetic retinopathy, vitreous hemorrhage, age-related macular degeneration, and other macular abnormalities.

RESEARCH FOCUS
Dr. Kinyoun’s research interests include diabetic retinopathy and retina complications of prior radiotherapy.
PATIENT CARE

MEDICAL AND SURGICAL RETINA continued

Kasra Rezaei, MD
Dr. Rezaei is a UW assistant professor of ophthalmology and attending physician at the UW Medicine Eye Institute at Harborview Medical Center.

EDUCATION
BA/MD – Azad University, Tehran, Iran
Residency – Ophthalmology, Vanderbilt University
Fellowship – Vitreo-Retinal Disease & Surgery, Associated Retina Consultants

PATIENT CARE PHILOSOPHY
Dr. Rezaei feels that it is a great honor to participate in the care of patients and improve their vision and quality of life.

SCOPE OF CARE
Dr. Rezaei’s clinical interests include the management of complex retinal detachments, diabetic retinopathy, retinal vascular occlusions, and age related macular degeneration.

RESEARCH FOCUS
Dr. Rezaei’s research includes: development of new generation of optical coherence tomography in diagnosis of diabetic retinopathy, age related macular degeneration and vein occlusion.

Aaron Lee, MD, MSc
Dr. Lee is a UW assistant professor of ophthalmology and attending physician at the VA Puget Sound Health Care System.

EDUCATION
BS – Harvard University
MD – Washington University
Residency – Ophthalmology, Washington University
Fellowships – Vitreo-Retinal Disease, Moorfields Eye Hospital, London, England; Vitreo-Retinal Surgery, University of British Columbia

PATIENT CARE PHILOSOPHY
As a clinician scientist, Dr. Lee is excited to help translate the latest breakthroughs in research into clinical care and to leverage the resources and facilities of University of Washington to provide excellent patient care.

SCOPE OF CARE
Dr. Lee specializes in vitreoretinal and macular diseases including epiretinal membranes, macular hole repair, retinal detachment repair, and hereditary macular dystrophies.

RESEARCH FOCUS
Dr. Lee is interested in the intersection of large clinical medical datasets and using non-traditional computational techniques to both analyze and visualize the results. He has created programs to process next-generation sequencing data in supercomputing environments and analyzed numerous Big Data sources including CMS, US Census, and NLM MEDLINE archives.

Lisa C. Olmos de Koo, MD, MBA
Dr. Olmos de Koo is a UW associate professor of ophthalmology and attending physician at the UW Medicine Eye Institute at Harborview Medical Center.

EDUCATION
AB – Harvard University
MD – Baylor College of Medicine
Residency – Ophthalmology, University of Miami (Bascom Palmer Eye Institute)
Fellowship – Vitreo-Retinal Disease & Surgery, University of Miami (Bascom Palmer Eye Institute)

PATIENT CARE PHILOSOPHY
Dr. Olmos de Koo is committed to excellence, drawing upon her experience and training as well as the latest scientific and technological advances to provide the best individualized care for her patients.

SCOPE OF CARE
Dr. Olmos specializes in both the medical and surgical care of vitreoretinal diseases. She cares for patients with retinal detachment, eye trauma, diabetic eye disease, macular pucker, macular hole, macular degeneration, hereditary retinal degenerations, and central serous retinopathy, among other conditions.

RESEARCH FOCUS
Dr. Olmos’ areas of research include artificial vision and retinal prostheses, novel therapies for macular degeneration and inherited retinal degenerations, screening methods and treatment strategies for diabetic retinopathy, and advanced retinal imaging modalities.
NEURO-OPHTHALMOLOGY

Courtney Francis, MD
Dr. Francis is a UW associate professor of ophthalmology and an attending physician at the UW Medicine Eye Institute at Harborview Medical Center.

EDUCATION
BS- Brown University
MD – University of Rochester
Residency – Ophthalmology, University of Alabama, Birmingham
Fellowship – Neuro-Ophthalmo-logy, University of Southern California (Keck School of Medicine and Doheny Eye Institute)

PATIENT CARE PHILOSOPHY
Dr. Francis enjoys educating her patients, residents and medical students about neuro-ophtalthimologic diseases. The multidisciplinary approach we have here at UW really helps to provide the best care for our patients, many of whom have complex conditions.

SCOPE OF CARE
Dr. Francis’ clinical interests include optic neuropathies, adult strabismus/cranial nerve palsies, idiopathic intracranial hypertension/papilledema, pupillary abnormalities, and benign essential blepharospasm/hemifacial spasm. She is also interested in tumors involving the visual pathways, multiple sclerosis, myasthenia gravis and thyroid eye disease. Dr. Francis performs strabismus surgery, temporal artery biopsies, optic nerve fenestrations and botulinum toxin injections, in addition to other procedures.

RESEARCH FOCUS
Dr. Francis’ research focus includes the use of OCT in evaluating optic neuropathies, the ophthalmologic manifestations of multiple sclerosis and cranial nerve palsies.

OCULOPLASTICS AND ORBITAL SURGERY

A.J. Amadi, MD
Dr. Amadi is a UW clinical associate professor of ophthalmology and attending physician at Harborview Medical Center’s 4 West Clinic.

EDUCATION
BS – Rensselaer Polytechnic Institute
MD – State University of New York
Residency – New York University Medical Center
Fellowships – Eye Pathology/Ocular Oncology, Harvard University (Massachusetts Eye and Ear Infirmary); Orbital & Ophthalmic Plastic and Reconstructive Surgery, University of Washington

PATIENT CARE PHILOSOPHY
Patients always come first.

SCOPE OF CARE
Dr. Amadi’s clinical interests include orbital and ophthalmo-lmic/facial plastic surgery, ophthalmic pathology and genetics of ptosis.

RESEARCH FOCUS
Dr. Amadi’s research focuses on ophthalmic pathology.

Christopher Chambers, MD
Dr. Chambers is a UW assistant professor of ophthalmology and attending physician at the UW Medicine Eye Institute at Harborview Medical Center as well as Seattle Children’s Hospital.

EDUCATION
BS – University of Notre Dame
MD – The Ohio State University College of Medicine
Residency – Ophthalmology, Kresge Eye Institute
Fellowship – Orbital & Ophthalmo-lmic Plastic and Reconstructive Surgery, University of Pennsylvania

PATIENT CARE PHILOSOPHY
Outstanding medical care should focus on treating the disease as well as the individual patient.

SCOPE OF CARE
Dr. Chambers specializes in Oculofacial Plastic Surgery, Cosmetic Surgery (lid lifts, brow lifts, mid-face lifts, Botox, fillers, blepharoplasty) Facial Reconstructive Surgery, Orbital (eyelid and lid lifts) Surgery, Orbital trauma, Cancer reconstruction (Mohs), Lacrimal Surgery (tearing), Eyelid Surgery (droopy eyelids), Pediatric Oculoplastic Surgery, Microphthalmia

RESEARCH FOCUS
Pediatric Oculoplastic Surgery, Microphthalmia, Capillary Hemangiomas, Cosmetic Facial Surgery
Shu-Hong (Holly) Chang, MD
Dr. Chang is a UW clinical assistant professor of ophthalmology and attending physician at the UW Medicine Eye Institute at Harborview Medical Center.

EDUCATION
BA – Duke University
MD – Johns Hopkins University
Residency – Ophthalmology, Washington University
Fellowships – Ophthalmic Pathology, Washington University; Orbital & Ophthalamic Plastic and Reconstructive Surgery, University of California, Los Angeles

PATIENT CARE PHILOSOPHY
When it comes to the face, each patient’s concerns, whether medical or aesthetic, are unique. Dr. Chang has the privilege of tailoring proven surgical techniques, cutting-edge science, and artistic sensibilities to create an individualized treatment plan for each patient.

SCOPE OF CARE
Dr. Chang specializes in minimally-invasive small-incision techniques for reconstructive as well as cosmetic orbital, lacrimal, and oculofacial surgery.

RESEARCH FOCUS
Dr. Chang is interested in orbital tumors and inflammatory diseases, including orbital lymphoma and thyroid-associated Graves disease.

Robert E. Kalina, MD, Professor Emeritus
Dr. Kalina is a UW professor emeritus and past chair of the UW Department of Ophthalmology. He is past president of UW Physicians and director emeritus of the American Board of Ophthalmology.

EDUCATION
BA – University of Minnesota
BS – University of Minnesota
MD – University of Minnesota Medical School
Residency in Ophthalmology – University of Oregon Medical School
Special Fellow – National Institute of Neurological Diseases and Blindness, Massachusetts Eye and Ear Infirmary

PATIENT CARE PHILOSOPHY
Dr. Kalina thoroughly enjoys meeting patients and trying to help them solve their health problems.

SCOPE OF CARE
Intraocular tumors and retinal diseases, particularly retinal degenerations; inherited retinal diseases; and retinopathy of prematurity.

Andrew W. Stacey, MD, MSc
Dr. Stacey is a UW assistant professor and attending physician at the UW Medicine Eye Institute at Harborview Medical Center.

EDUCATION
BS – Brigham Young University
MS – Brigham Young University
MD – The Ohio State University
Residency – Ophthalmology, University of Michigan (Kellogg Eye Center)
Fellowship – Ocular Oncology, Moorfields Eye Hospital and St. Bartholomew Hospital, London, England

PATIENT CARE PHILOSOPHY
Dr. Stacey enjoys teaching his patients about what he sees in their eyes and providing them with information and options, then together come up with the best course of action.

SCOPE OF CARE
Dr. Stacey specializes in cataract surgery and ocular oncology. He sees patients with conjunctival tumors (papilloma, intraepithelial neoplasia, squamous cell carcinoma, melanoma, lymphoma), adult intraocular tumors (iris melanoma, ciliary body melanoma, choroidal melanoma, intraocular metastasis, intraocular lymphoma, retinal angiomas, choroidal hemangiomas, vasoproliferative tumors of the retina), and pediatric intraocular tumors and vascular abnormalities (retinoblastoma, medulloepithelioma, Coats’ disease).

RESEARCH FOCUS
Dr. Stacey’s research interests include emerging therapeutics for patients with choroidal melanomas, novel statistical approaches to medical research and clinical trial design, telemedicine and new technologies for early diagnosis of ocular tumors, and research into retinoblastoma treatments and outcomes.
**Claire Angel, OD**
Dr. Angel is a UW teaching associate and optometrist. Dr. Angel’s primary clinical practice is UW Neighborhood Clinic-Belltown and Eyes on James Optical Shop at Harborview Medical Center.

**EDUCATION**
BS – Southern College of Optometry
OD – Southern College of Optometry
Post-graduate – Omni Eye Services

**PATIENT CARE PHILOSOPHY**
Dr. Angel believes in the best quality care for her patients.

**SCOPE OF CARE**
Dr. Angel’s clinical interests include comprehensive optometry and baseline dilated fundus exam for patients diagnosed with systemic diseases.

---

**Susan Dini, OD**
Dr. Dini is a UW teaching associate and optometrist. Dr. Dini’s primary clinical practice is UW Neighborhood Clinic-Ravenna and Eyes on James Optical Shop at Harborview Medical Center.

**EDUCATION**
BS – University of Washington
OD – Pacific University College of Optometry

**PATIENT CARE PHILOSOPHY**
Dr. Dini believes that eye care is an important element of general health and quality of life. She is committed to helping patients maintain lifelong healthy eyes with valuable information and resources for total eye health.

**SCOPE OF CARE**
Dr. Dini specializes in CL fits, CVS and dry eye.

---

**Tiffany Hollenbeck, OD**
Dr. Hollenbeck is a UW teaching associate and optometrist. Dr. Hollenbeck’s primary clinical practice is at Eyes on James Optical Shop at Harborview Medical Center.

**EDUCATION**
BS – Biology and Natural Science, Gustavus Adolphus College
OD – Pacific University College of Optometry

**PATIENT CARE PHILOSOPHY**
Dr. Hollenbeck believes her patients always come first.

**SCOPE OF CARE**
Dr. Hollenbeck’s clinical interests include comprehensive optometry and dry eye and allergies.
PATIENT CARE

Nancy Ross, OD
Dr. Ross is a UW teaching associate and optometrist. Dr. Ross’ primary clinical practice is UW Neighborhood Clinic-Shoreline. She also services as optometrist for the refractive Surgery Center at UW Medical Center.

EDUCATION
BA – Western Washington University
OD – Pacific University College of Optometry
Post-graduate – Westside VAMC
Post-graduate – Hines VAMC Blind Rehabilitation Center

PATIENT CARE PHILOSOPHY
Compassion and individual attention are critical in providing patients with the highest standards of comprehensive eye care. Dr. Ross believes in giving patients a thorough explanation and providing them with the tools to be proactive in their care. She feels fortunate to work with an outstanding team at the UW that synchronizes care to provide patients with a seamless experience.

SCOPE OF CARE
Dr. Ross’s clinical interests include comprehensive eye care, diabetic eye evaluations and pre- and postoperative care of cataract patients.

James Toop, OD, PhD
Dr. Toop is a UW teaching associate and optometrist. Dr. Toop’s primary clinical practice is Eyes on James Optical Shop at Harborview Medical Center.

EDUCATION
BSc – University of Edinburgh, Scotland
PhD – University of Edinburgh, Scotland
OD – New England College of Optometry
Fellowship – Muscle Biochemistry, University of California

PATIENT CARE PHILOSOPHY
Everyone will receive the best possible care, whether it is a straightforward update of a glasses or contact lens prescription, or management of a complex ocular condition, without discrimination. Everyone will be treated courteously and be seen in a timely fashion whenever possible.

SCOPE OF CARE
Complete eye exams, with referral to appropriate specialists as needed; and fitting of soft and hard contact lenses for cosmetic or therapeutic reasons.

Vivian Manh, OD, MS
Dr. Manh is a UW clinical instructor in ophthalmology and optometrist. Dr. Manh provides pediatric optometric services at Seattle Children’s Hospital.

EDUCATION
BSc – University of Waterloo School of Optometry
OD – University of Waterloo School of Optometry
MS – Indiana University School of Optometry
Post-graduate – Southern California College of Optometry

PATIENT CARE PHILOSOPHY
Vision is a crucial aspect of a child’s overall development. It is a privilege to be able to provide young patients with clear and comfortable access to their visual environment and to help families maximize their children’s potential for learning and growth.

SCOPE OF CARE
Dr. Manh’s clinical interests include providing eye care for the pediatric and special needs populations as well as the diagnosis and management of strabismus/amblyopia and non-strabismic binocular vision disorders.

RESEARCH FOCUS
Dr. Manh’s research interests include early detection, prevention, and treatment of amblyopia and strabismus, infant and childhood refractive error development.
# PEDIATRIC & STRABISMUS

<table>
<thead>
<tr>
<th>Francine M. Baran, MD</th>
<th>Michelle T. Cabrera, MD</th>
<th>Erin P. Herlihy, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Baran is a UW clinical associate professor of ophthalmology and attending physician at Seattle Children’s Hospital.</td>
<td>Dr. Cabrera is a UW assistant professor of ophthalmology and attending physician at Seattle Children’s Hospital.</td>
<td>Dr. Herlihy is a UW associate professor of ophthalmology and attending physician at Seattle Children’s Hospital.</td>
</tr>
</tbody>
</table>

**EDUCATION**

- BA – Washington University
- MD – Drexel University College of Medicine
- Residency – Ophthalmology, State University New York
- Fellowship – Pediatric Ophthalmology, Children’s National Medical Center

- BS – Stanford University
- MD – University of California at San Francisco
- Residency – Ophthalmology, University of California, San Francisco
- Fellowship - Pediatric Ophthalmology, Duke Eye Center

- BS – University of Notre Dame
- MD – Loyola University
- Residency – Ophthalmology, University of Washington
- Fellowship – Pediatric Ophthalmology and Strabismus, University of Michigan (Kellogg Eye Center)

**PATIENT CARE PHILOSOPHY**

- Dr. Baran loves making a difference in children’s lives by helping care for one of their most precious abilities, their sight.

- Dr. Cabrera believes that a child’s ocular health depends on establishing a good relationship with both the family and the patient and in open communication and discussion with everyone involved.

- A fun and nonthreatening environment is essential in engaging children and their families to participate in their eye care. Families need to have a thorough understanding of their child’s or their own condition to be effective partners in ensuring eye health and maximizing visual development.

**SCOPE OF CARE**

- Dr. Baran’s clinical interests include pediatric ophthalmology, glaucoma, amblyopia, strabismus. She also specializes in pediatric and adult cataracts, congenital anomalies, glaucoma, retinopathy of prematurity, ptosis and nasolacrimal duct obstruction.

- Dr. Cabrera’s clinical interests include pediatric strabismus, amblyopia, nasolacrimal disorders, pediatric cataracts, pediatric glaucoma, retinopathy of prematurity, ptosis, and systemic diseases that affect the eyes.

- Dr. Herlihy’s clinical interests include pediatric and adult strabismus, amblyopia, nasolacrimal disorders, pediatric cataracts, and systemic diseases that affect the eyes.

**RESEARCH FOCUS**

- Dr. Baran’s research are of interest include myopia, cataracts, retinopathy of prematurity, treatment of nasolacrimal duct obstruction and ocular colobomas.

- Dr. Cabrera’s research interests include optical coherence tomography in infants, telemedicine in retinopathy of prematurity, and residency education focused on pediatric ophthalmology.

- Dr. Herlihy’s research interests include investigating the pathogenesis of myopia and progressive axial length elongation in children, the systemic associations of vergence disorders in children and adults, and various treatments for amblyopia, infantile hemangiomas, and nasolacrimal duct obstruction.
Kristina Tarczy-Hornoch, MD, D. Phil
Dr. Tarczy-Hornoch is a UW professor of ophthalmology and chief of service at Seattle Children’s Hospital.

EDUCATION
MD – University of California, San Francisco
MS – University of Southern California
Residency – Ophthalmology, University of Southern California (Keck School of Medicine and Doheny Eye Institute)
Fellowship – Pediatric Ophthalmology and Strabismus, Johns Hopkins Hospital (Wilmer Eye Institute)

PATIENT CARE PHILOSOPHY
One of the most rewarding experiences for a physician is being able to teach families and empower them to make informed decisions about a child’s care.

SCOPE OF CARE
Dr. Tarczy-Hornoch’s clinical interests include disorders of childhood vision development, congenital and acquired anomalies in and around the eye; ophthalmic manifestations of systemic disease in children.

RESEARCH FOCUS
Dr. Tarczy-Hornoch’s research focuses on epidemiology of vision disorders in children and accommodative function in children during normal and abnormal visual development.

Avery H. Weiss, MD
Dr. Avery H. Weiss is a UW professor of ophthalmology and attending physician at Seattle Children’s Hospital.

EDUCATION
BS – University of Florida
MD – University of Miami
Residency – Ophthalmology, Washington University
Fellowship – Pediatric Ophthalmology, Children’s Hospital National Medical Center

PATIENT CARE PHILOSOPHY
Dr. Weiss’ goal is to optimize the care of each patient by investigating the problem and recommending treatment based on the best available scientific evidence.

SCOPE OF CARE
Dr. Weiss’ clinical interests include electroretinogram, oculomotor testing (Eye Movement Testing), and visual evoked potential.

RESEARCH FOCUS
Dr. Weiss’ research focuses on the visual function in a wide range of clinical disorders using visual evoked potentials (VEPs). Presently, we are concentrating on visual impairments associated with cortical malformations and visual pathway tumors. We are also interested in how the visual system extracts information from a moving a moving stimulus in patients with infantile nystagmus.

Cecilia Lee, MD
Dr. Lee is a UW assistant professor of ophthalmology and attending physician at the UW Medicine Eye Institute at Harborview Medical Center.

EDUCATION
BS – Emory University
MD – Emory University
Residency – Ophthalmology, Emory University
Fellowship – Uveitis, Washington University; Medical Retinal Disease, Moorfields Eye Hospital, London, England

PATIENT CARE PHILOSOPHY
Dr. Lee loves to participate in her patients’ healthcare by providing personalized, up-to-date medical care. She enjoys translating next generation research tools in medical retina to the clinic and providing deeper insights in each patient’s care.

SCOPE OF CARE
Dr. Lee specializes in uveitis, including iritis, pars planitis, retinitis, choroiditis and scleritis, and medical retinal disease.

RESEARCH FOCUS
Dr. Lee’s research interests are focused in diseases of the retina and uveitis. She is dedicated in improving our knowledge on pathogens’ role in various ocular conditions and understanding the clinical outcome. She is also interested in using non-invasive imaging modalities to find new biomarkers to predict the outcomes of different retinal diseases.
Theldea Leveque, MD, MPH
Dr. Leveque is a UW clinical associate professor and attending physician at the UW Medicine Eye Institute at Harborview Medical Center.

EDUCATION
BA – Amherst College
MD – Duke University
MPH – University of North Carolina
Residency – Ophthalmology, University of Michigan
Fellowship – Uveitis, University of Washington

PATIENT CARE PHILOSOPHY
Patient education and participation in care is vital to eye health. Dr. Leveque will do everything she can to explain her patient’s eye condition in a way that makes sense to the individual.

SCOPE OF CARE
Dr. Leveque’s clinical interests include straightforward and complex medical conditions of the eye, including dry eye and related diseases, glaucoma, mild to moderate macular degeneration, ocular health in systemic disease (including diabetes), and trauma. She has a particular interest in uveitis, and uveitic cataract.

RESEARCH FOCUS
Dr. Leveque’s research focuses on uveitis and prevention.

Kathryn L. Pepple, MD, PhD
Dr. Pepple is a UW assistant professor of ophthalmology and attending physician at the UW Medicine Eye Institute at Harborview Medical Center.

EDUCATION
BS – University of Oklahoma
MD – Baylor College of Medicine
PhD – Baylor College of Medicine
Residency – Ophthalmology, Duke University
Fellowships – Medical Retinal Disease, Duke University; Uveitis, University of Washington

PATIENT CARE PHILOSOPHY
Dr. Pepple’s goal is to prevent vision loss and blindness by providing high quality clinical care and developing new treatments for patients with uveitis.

SCOPE OF CARE
Dr. Pepple specializes in uveitis, including iritis, pars planitis, retinitis, choroiditis and scleritis, and medical retinal disease including age related macular degeneration, diabetic retinopathy, and retinal vascular diseases.

RESEARCH FOCUS
Dr. Pepple’s laboratory is interested in understanding the pathogenesis of ocular inflammation, and developing new therapies to treat patients with uveitis. Her lab is also interested in novel applications of advanced imaging modalities such as optical coherence tomography (OCT) and IVIS in clinical and pre-clinical studies of uveitis.

Russell N. Van Gelder, MD, PhD
Dr. Van Gelder is the UW Boyd K. Bucey Professor and chair of the Department of Ophthalmology. He is also attending physician and director of the UW Medicine Eye Institute at Harborview Medical Center, and director of the Vision Science Center.

EDUCATION
BS – Stanford University
MD – Stanford University
PhD – Stanford University
Residency – Ophthalmology, Washington University School of Medicine
Fellowship – Uveitis and Medical Retinal Disease, Washington University (Barnes Retina Institute)

PATIENT CARE PHILOSOPHY
Dr. Van Gelder’s goal is to give each patient the care he would give his family; to apply the best scientific evidence and most appropriate treatments; and to help the patient make the best medical decisions.

SCOPE OF CARE
Dr. Van Gelder specializes in uveitis, including iritis, pars planitis, retinitis, choroiditis and scleritis, medical retinal disease, and also in hereditary retinal disease and macular dystrophies.

RESEARCH FOCUS
Dr. Van Gelder’s laboratory is interested in the mechanisms of uveitic disease, including discovery of novel pathogens and understanding the role of auto-antibodies in uveitis. His laboratory is also interested in how the eye can sense light without seeing, and how these mechanisms can be used to treat blindness.
EDUCATION

PREPARING THE NEXT GENERATION OF PHYSICIANS AND VISION SCIENTISTS

The University of Washington has trained more than 150 eye physicians and surgeons since 1966. Our committed faculty members, modern teaching facilities, and volume of pathology make the University of Washington an ideal learning environment.

RESIDENT AND FELLOW PHYSICIANS

Residency Program
The Ophthalmology residency is designed to develop clinicians well trained in medical and surgical ophthalmology prepared to excel as community practitioners, or to follow a career track that will lead them to academic medicine or biomedical research. With our outstanding faculty and state of the art facilities, our residents are exposed to a wide variety of pathology from the greater WWAMI region (Washington, Wyoming, Alaska, Montana, Idaho).

Fellowships

Ophthalmic Plastic & Reconstructive Surgery Fellowship
This competitive ASORPS-approved two-year training program is designed to provide exposure to all aspects of ophthalmic plastic surgery.

Retina Fellowship
This AUPO-approved two-year training program is designed to provide exposure to all aspects of medical retina disease, vitreoretinal surgery, uveitis, and ocular tumors.

Pediatric Ophthalmology Fellowship
Seattle Children’s Hospital and the University of Washington Department of Ophthalmology offers a one-year, comprehensive medical and surgical Pediatric Ophthalmology and Strabismus fellowship. This competitive training program is designed to provide exposure to all aspects of Pediatric Ophthalmologic and Adult Strabismic disease.

Uveitis and Ocular Inflammation Fellowship
The University of Washington Department of Ophthalmology offers a one- or two-year, comprehensive AUPO FCC (Association of University Professors of Ophthalmology Fellowship Compliance Committee) approved Uveitis and Ocular Inflammation Fellowship.
We Know What We Are,
But Know Not What
We May Be.

SHAKESPEARE
Our faculty are drawn to the UW for its rich academic culture and its facility to translate the creative process into clinical practice. We thrive in discovery and innovation.

2016 DEPARTMENT PUBLICATIONS


Select Recent Publications continued


OUR DONORS, OUR THANKS

FISCAL YEAR 2016-2017

We would like to thank our philanthropic partners, whose generosity accelerates our ability to conduct cutting-edge research, provide state-of-the-art patient care, and train the next generation of ophthalmologists that will practice in our community and beyond.

To learn more about giving, getting involved and the many ways you can make an impact, please contact Abbey Norris, director for philanthropy, at 206.221.8274 or abbeyn@uw.edu or Jordan Lane, assistant director for philanthropy, at 206.221.4769 or lanej22@uw.edu.

If you’d like to learn more about Accelerate: The Campaign for UW Medicine please visit: www.AccelerateMed.org

Peggy Adams
Alcon Research, Ltd.
Allergan, Inc.
Allison Foundation
Margaret Alskog*
American Glaucoma Society
Claire Angel, O.D., and Lance Odermat
Richard Angel
Baird Foundation, Inc.
Barbara Bedell
Walter Beerman
Carl and Renee Behnke
Joan Bergy
The Bishop Foundation
Robert Boada, M.D.
Katherine and Michael Boehm, M.D.
Thomas and Madelon Bolling, M.D.
Cornelius and Catherine Borman
Teresa and William Bourke
Debbi and Paul Brainerd
Richard* and Shirley Brandenburg
Gudrun Brown
Tina Bueche
Alvin and Michelle Cabrera, M.D.
Patricia and Kevin Callaghan
CDK Global, Inc.
Jennifer Chao, M.D., Ph.D. and Todd Klesert, M.D., Ph.D.
Philip Chen, M.D., and Grace Cinciripini, M.D.
Ajoy Cherian
Carol and Ralph Clayman, M.D.
Jeanne and Cathy Cline
William Craig, III
Bryna Crohn
Marybeth and Leroy Dart, M.D.
Kathleen and Richard Doerr
Nancy and Chuck Eaton
eBay Foundation
Sharlee and Peter Eising
Eureka Group
Dennis Evans and Nancy Mee
Barbara and John Foster
Brian Francis
Phyllis and Lawrence Frank
Linda Frank
Sally and Philip Franzel
Joseph Freeman, M.D.
Nanette and Melvin Freeman, M.D.
Robert Freeman and Margarita Meta
Anne Futterman
Cynthia and Joseph Gensheimer
Marian and John Gerstle, Ph.D.
The Glaser Foundation
Kathy and Paul Graham
Audrey and Thomas Green, III
Masako and Simon Guest
Lisa and Jeff Hagander
Dorothy and Elroy Hapke
Helen and James Hargiss, M.D.
Viola and Thomas Harrison, M.D.
Catherine and James Hayner
Margaret Hazeltine
Hear See Hope Foundation
Anita Hendrickson Ph.D.*
Thomas and Erin Herlihy, M.D.
Janet and Peter Hermanson
Peggy and James Hilton
Katherine and William Hood, Jr., M.D.
Dana and Richard Hopp, M.D.
Camille and David Jassny
Mardra and Christopher Jay
Jeanie and Murray Johnstone, M.D.
Pamela and John Jolley
Janet and Robert Kalina, M.D.
Sally Kim-Miller, M.D.
Cheng Ku and Nien-Tzu Li
Deborah Lam, M.D., and Dennis Wang, M.D.
Alida and Christopher Latham
Cecilia S. Lee, M.D., M.S. and Aaron Lee, M.D., M.Sc.
Sue MacDonald
Tyna and Stuart Mandel
Andrea Matthews
Daniel Matthews
Craig Mckibben and Sarah Menner
Irene and Edwin Mcrory
Jean and Frank Miles
Karen Covington-Mills and Richard Mills, M.D.
Jodie and David Miner
Barbara and Prof. Fred Minifie
Betty Moser
Richard Munsen, M.D. and Deidra Wager
Richard Munsen, Sr.
Michel Myers and Benjamin Diederich
Maureen Neitz, Ph.D. and Jay Neitz, Ph.D.
Patsy and James Nelson
Thu Lang Ngo and Cung Hoang
Lesley and Kenneth Nilsson
Abbey Norris and Bryan Agnetta, Ph.D.
Thomas O’Donnell
Carol and R. Thomas Olson
Katherine Olson Foundation
Panoptica, Inc.
Margaret and Ernest Pearson
Kathryn Pepple, M.D., Ph.D. and Karl Pepple, Ph.D.
Jeanette and Carl Pergam
Pamela Nunez Pitzer
Suzanne and Brooks Ragen
Janet and Cary Rayment
Regeneron Pharmaceuticals, Inc.
Nancy and Jack Rodgers
Rosemary and Robert Rognstad
Jean Ross
Gatis Roze and Joanna Stratton
Pauline Saxon
Mary and Brad Schrock
Brenda and Graham Siddall, Ph.D., D.Sc.
Carol and Alan Sidell
Amy Simmensen
Janet and James Sinegal
Janet and Orin Smith
Sparks Exhibits & Environments Corp.
Kristen Stasney
Therese and Phillip Stein
Robert Stevens, Jr.
Rebecca and Henrik Strabo
Marion and John Sullivan, Jr.
Synopsys Employee Philanthropic Program
Eric Tabib and Jeanne Bourget
Marie Tapp
Kristina Tarczy-Hornoch, M.D.
Richard Teasley
Eileen and John Tietze
Diane and Chris Tippett
University Lions Foundation
Russell Van Gelder, M.D., Ph.D., and Suzanne Dintzis, M.D., Ph.D.
Gurunadh Vemulakonda, M.D.
Edward Vervoort
WA Academy of Eye Physicians
Leo Walchuk
Shirley and Duane Wheeler
Thelma and Francis Wood, Jr., M.D.
Carol Wright

* deceased
ENDOWMENTS: A LASTING LEGACY

In addition to leaving a wonderful legacy for a donor, endowments provide a lasting and reliable source of support for the Department of Ophthalmology. We are honored to be able to recognize many generous supporters who have invested in the future of the Department.

Ora Lee Anderson Endowed Ophthalmology Fund
Boyd K. Bucey Memorial Endowed Chair in Ophthalmology
John Colen, M.D. Endowed Fund for Ophthalmology
Endowed Ophthalmology Resident Research Award
Dr. Melvin I. and Nanette D. Freeman Endowed Fund in Ophthalmology
Sidney Futterman Endowment
James L. Hargiss Ophthalmic Plastic and Reconstructive Surgery Fellowship
James Hargiss, M.D., Endowed Fund in Ophthalmology
Edyth W. Henderson Endowment
Grace E. Hill Chair in Vision Research
Ray H. Hill Chair in Ophthalmology
C. Dan and Irene Hunter Endowed Fund for Ophthalmology
Roger H. Johnson Award for Macular Degeneration
Robert and Janet Kalina Endowed Fund for Research and Teaching in Ophthalmology
Robert and Janet Kalina Fund for Education in Ophthalmology
Robert E. Kalina, M.D. Endowed Professorship for Ophthalmology Education
Latham Endowed Faculty Fellowship in Vision Research Innovation
D. Franklin Milam, M.D., Endowed Fellows Support Fund in Ophthalmology
Richard S. Munsen, M.D. Endowed Fund for Ophthalmology
Helen L. and Arthur T. Ness Research Fund
Ophthalmology Endowed Fund
Helen A. and Robert Max Reynolds Endowed Research Fund in Ophthalmology
Rose Seaquist Endowed Fund
Siddall Endowed Fellowship for Uveitis Research
Steen/Musgrave Research Fund in Ophthalmology
Jules and Doris Stein Research to Prevent Blindness Professorship
Tenckhoff Family Endowed Research and Teaching Fund
Helen Ann Thompson Fund for the UW Eye Institute
UW Department of Ophthalmology Outstanding Medical Student Scholarship
COMMUNITY ACTION BOARD: OUR AMBASSADORS

The UW Medicine Eye Institute Community Action Board (CAB) exists to support and further the UW Medicine Eye Institute’s mission to eliminate suffering from eye disease, both in our region and in the wider world. We do this by providing the highest quality medical and surgical eye care for patients, seeking new knowledge and treatments for eye diseases through rigorous research, and preparing the next generation of physicians and vision scientists to do the same.

2016-2017 CAB HIGHLIGHTS

- Purchased 30 smartphone adapters for residents to use in clinic to support patient exams and training;
- Purchased 16 iPads with curriculum materials for Ophthalmology trainees;
- Supported tours of our Vision Science Center labs and outreach presentations to 1000+ individuals in retirement communities, service clubs and low-vision support groups;
- Developed a series of promotional videos for the UW Medicine Eye Institute;
- Helped to launch a new program, in collaboration with the Lions Eyeglasses Recycling Center, to distribute eyeglasses to patients in need.

CAB MEMBERS

Mark Bathum
Tina Bueche
Dennis Evans
Melvin Freeman, M.D.
Nanette Freeman
Cynthia Gensheimer
Lt. Gov. Cyrus Habib
James Hilton
Camille Jassny
Jack Jolley
Robert Kalina, M.D.
Alida Latham, Incoming CAB Chair
Christopher Latham
Lane McKittrick
Nancy Mee
Richard Mills, M.D., MPH
Prof. Fred Minifie, CAB Chair
Richard Munsen, M.D.
R. Thomas Olson
Ernest Pearson
Ron Peck
Suzanne Ragen
Walter Rotkis, M.D.
Graham Siddall, Ph.D., D.Sc.
Brenda Siddall
Phillip Stein
Robert Stevens, Immediate Past Chair

EMERITUS CAB MEMBERS

Claire Angel
Barbara Bedell
Joan Bergy
Kevin Callaghan
Leigh Fenneman
Catherine Hayner
James Hayner
Dan Hunter
Irene Hunter
James Premo
EYE INSTITUTE | Clinic Locations

UW Medicine Eye Institute at Harborview
Ninth & Jefferson Building
7th Floor, Ninth & Jefferson Building
908 Jefferson St.
Seattle, WA 98104
(206) 744-2020
(206) 744-3937

Eye Center at UWMC
University of Washington Medical Center
NN 300
Box 356163
1959 N.E. Pacific St.
Seattle, WA 98195
(206) 744-2020

Ophthalmology (Eye) Clinic at Harborview
Harborview Medical Center
4th Floor, West Clinic
Box 359894
325 Ninth Ave.
Seattle, WA 98104
(206) 520-5000
(877) 744-9700

In Sight is published by the UW Medicine Eye Institute at the University of Washington.
Managing Editors: Michele D’Alessandro and Cianna Franklin
Design: UW Creative Communications

To add/remove your name from the mailing list, please send your name and address to:

In Sight
UW Medicine Eye Institute
Department of Ophthalmology
Box 359608
325 9th Avenue
Seattle, WA 98104-2499

ophthalmology.washington.edu