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

As we begin 2016, we celebrate another successful year for the Department of Ophthalmology at University of Washington. 2015 marked our 51st year as a department, and featured continued growth and success toward our mission of eliminating suffering from eye disease.

Our faculty has continued to grow. On the research side, we welcomed four new faculty to our department. Mike Manookin, PhD is an expert in primate retinal circuitry and patch clamp physiology; Ethan Buhr, PhD is expert in circadian rhythms in the retina, and recently discovered a novel photoreceptor in this tissue; Jianhai Dua, PhD is a retinal biochemist who, along with Dr. Jennifer Chao in our department, recently described a novel metabolic pathway in the outer retina; and Ram Safesan, PhD, is an expert in adaptive optics imaging. This group, along with our existing research faculty, have now filled the Vision Science Center located at UW Medicine’s South Lake Union 3.1 building. I am truly delighted with the strong basic science group who have chosen to make our department their home.

Our clinical faculty has also grown significantly this year. We welcomed two husband-and-wife teams to our faculty. Chris and Yasmin Chambers, MD are oculoplastics specialists. Chris is practicing at the Eye Institute and at Seattle Children’s Hospital, and has become the Associate Program Director for the residency. Yasmin is practicing at the Puget Sound VA Medical Center. Mike Banitt, MD, and Anne Ko, MD also joined our faculty. Both are experienced cornea specialists, and Mike also has fellowship training in glaucoma. Finally, Shivali Menda, MD joined us from her glaucoma fellowship in Portland, OR. All are terrific clinicians and teachers and add to our accomplished faculty.

Our Community Action Board continued to help us in our mission. The CAB is helping us develop better teaching tools in the clinic (using the magic of the smartphone); and has continued to support our trainees and junior faculty through resident research funds and seed grants through the Latham Vision Science awards.

2015 saw the first full year of our new in-suite operating room. We performed over 400 surgeries in this new facility in the UW Medicine Eye Institute. This suite allows us to be more efficient surgeons, and patients appreciate being able to have their surgery with our staff right in our office.

In the education domain, we completed our expansion of the residency from 12 to 15 residents, and initiated two new resident rotations. The American Lake VA rotation is a cataract surgery-heavy rotation for PGY4 rotations, and allows our residents to further serve the veterans of this region. And we have initiated an exchange rotation with the residents at Madigan Army Base’s ophthalmology residency. Our residents are getting primary surgeon experience at Madigan in their refractive surgery program.

Our trainees continue to thrive. This year, our five graduating residents have all matched into outstanding fellowships, in retina, oculoplastics, cornea, and glaucoma. Our fellowship trainees have found outstanding positions in academia and private practice. And once again, all of our recent trainees were able to pass their Board examinations on the first sitting.

Finally, I completed my year as President of the American Academy of Ophthalmology. I am the second UW faculty member to hold this position; Dick Mills, MD served in 1995 (and remains on the Committee of Secretaries as the long-standing editor of EyeNet magazine). I appreciate our community’s support of the department and have many personal thanks for all those who made it possible for me to serve the profession in this capacity this year. I truly enjoyed my year as AAO President – but am happier still to be back full time in our department, and look forward to an outstanding 2016!

Russell N. Van Gelder, MD, PhD
Boyd K. Bucey Memorial Chair
UW Medicine Department of Ophthalmology
RESEARCH

Vision Research Scientists and Clinician Scientists are committed to the goal of improving diagnosis, treatment, and ultimately cures of 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.

ADVANCING A CURE FOR COLORBLINDNESS

Color vision deficiency (CVD), also known as red-green color blindness, is a common genetic disease that affects approximately 8 percent of males and 0.5 percent of females. Over 10 million people in the US are color blind. CVD impacts common aspects of everyday life, limits professional choices, and can affect health and safety.

Photopigments in the retina allow people to see color. Individuals with ‘normal’ color vision have three different types of photopigments, which are tuned to perceive either long wavelengths (red), middle wavelengths (green) or short wavelengths (blue). These are referred to as L-, M- and S-opsins. Most people who experience CVD are missing either the L-opsin or the M-opsin. These individuals have trouble distinguishing between red and green and colors that contain red or green hues.

Jay Neitz, PhD and Maureen Neitz, PhD, have experienced significant success in their pursuit of finding a cure for color blindness. In 2009 the Neitzes showed they could correct color blindness in male squirrel monkeys using gene therapy. The monkeys are born unable to see red, green, or colors that contain red or green hues. They were referred to as M-opsin. These individuals have trouble distinguishing between red and green and colors that contain red or green hues.

Jay Neitz, PhD and Maureen Neitz, PhD, have experienced significant success in their pursuit of finding a cure for color blindness. In 2009 the Neitzes showed they could correct color blindness in male squirrel monkeys using gene therapy. The monkeys are born unable to distinguish between red and green. The procedure involves inserting the human form of a gene that detects red color into a viral ‘vector’ and injecting it behind the retinas of the monkeys. The process proved to be a success with Sam and Dalton, two now famous squirrel monkeys, who gained the ability to distinguish red and green colors after the gene therapy.

However, the need to inject the virus under the retina made this treatment too dangerous to develop for human use. The Neitzes began seeking an alternative to surgery that would position the gene to the rear of the eye with a simple shot in the jelly cavity (vitreous) of the eye. In partnership with Avalanche Biotechnologies, Inc. the Neitzes are advancing their delivery of this potential cure in a less invasive method.

The technique delivers the therapy in a benign viral vector called adenovirus-associated virus to hold the pigment gene, which is injected directly into the gel of the eye. It then targets the back of the retina, where the DNA produces the missing photo pigment. According to Jay Neitz, it will require about 30 percent of the cells to undergo this change, and early tests show the technique meets that percentage in monkeys. In partnership with Avalanche, the Neitzes hope to have this treatment advanced to human clinical trials within the next several years. Although some tests which succeed in animals may fail in humans, both Jay and Maureen Neitz and the officials at Avalanche are cautiously optimistic that the trials will be successful. According to the Neitzes, the technique to correct colorblindness might eventually be used for other photoreceptor-based disorders, including retinitis pigmentosa, which is an inherited disorder that can lead to blindness. After pre-clinical safety trials have been completed, the goal is to conduct human trials within one to two years, followed by application to the Food and Drug Administration for approval of the treatment. It is conceivable that if and when treatment is available, it could take place in a single visit to an ophthalmologist’s office. It is possible that CVD will be the first common genetic disease widely treated by gene therapy in the future.

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 photopigments 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.
Jennifer Chao, MD, PhD
Assistant Professor

THE CHAO LAB
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 the condition.

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

THE SHEN LAB
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.

Ethan Buhr, PhD
Research Assistant Professor

THE MAKING OF THE MASTER CLOCK
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.

Michael B. Manookin, PhD
Assistant Professor

THE MANOOKIN LAB
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.
Jianhai Du, PhD
Research Assistant Professor

Dr. Du's research investigates cell metabolism in retina and retinal degenerative diseases. By combining stable isotope labeling with state-of-the-art mass spectrometry, new metabolic pathways are identified among photoreceptors, glial cells and retinal pigment epithelium (RPE) cells, as well as how metabolism is re-wired in inherited retinal degenerations. In collaboration with clinicians, metabolites and metabolite transport in patients with retinal degenerative diseases and patient-derived diseased retinal cells with induced pluripotent stem cells (iPSC) technology are studied, with the ultimate goal of translating these findings to clinical therapeutics in the treatment of the blindness.

Cecilia S. Lee, MD
Assistant Professor

Dr. Lee is a UW Medicine Assistant Professor of Ophthalmology and clinician-scientist. Dr. Lee divides her time between seeing patients with retinal conditions, performing cataract extractions, teaching and pursuing her research in medical retina and uveitis. Her 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. Dr. Lee recently received a prestigious K23 clinician-investigator award from the National Institutes of Health.

Kathryn L. Pepple, MD, PhD
Assistant Professor

Dr. Pepple is a UW Medicine Assistant Professor of Ophthalmology. She 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. 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.

Ramkumar Sabesan, PhD
Research Assistant Professor

Dr. Sabesan's research group studies how the human retina enables the fundamental, yet, intricate aspects of our daily vision - color, motion and so on, and how such visual capacities are disrupted in the face of retinal diseases. To achieve this, they develop and use novel imaging tools which enable them to see, stimulate, manipulate and record the functional activity of individual retinal cells in living humans. Ultimately, they aim to use these high-resolution functional assays as biomarkers for early disease diagnosis and end-points for the treatment of blinding retinal disorders.
Within the eye, neuropsin now is the sixth working photopigment scientists have identified. Van Gelder has long used a camera analogy with patients who face vision diseases and disorders to explain how these systems work. “The cornea and eye’s lens are like the lens of the camera, focusing light, and the retina is like the film or the sensor in the back, where the image is created. For many years people viewed the eye as if it were an old-style camera, without a light meter. The discovery of the first non-visual opsin, melanopsin (1998), identified the first light meter in the eye. Just like a light meter, melanopsin measures the brightness of light but it doesn’t contribute to the image.

“The new opsins, including neuropsin and encephalopsin, suggest there is not just one light meter in the eye but multiple light meters that serve different functions. No one would’ve guessed that 20 years ago,” he said. “Now our goal is to figure out exactly how these light meters work and what functions they control.”

Although this study’s finding spotlighted new capability of the cornea, Van Gelder said, it also suggests that the retina is more complex than was previously suspected. “We didn’t think the retina needed another photopigment; it has five we already know about. What’s remarkable is that it doesn’t use any of those pigments to synchronize its own circadian rhythms to the light-dark cycle.”

“Figuring out why evolution found advantage in using neuropsin is a question that will engage us for the foreseeable future.”

UW research assistant professor Ethan Buhr was first author of this work, which was done in collaboration with the laboratories of King Wai Yau at Johns Hopkins University and Richard Lang at Cincinnati Children’s Hospital. The study was supported by National Institutes of Health grants F32EY02114, EY14596, EY23179 and EY001370.
The Vision Core Lab at UW Medicine South Lake Union provides shared instrumentation, expertise, and services to NEI funded vision Scientists. The Vision 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, expertise, and services to NEI funded vision Scientists. The Cellular Module includes a JEOL 1230 transmission electron microscope, Olympus FV1000 Confocal microscope, a Nikon Widefield microscope, a serial block face scanning electron microscope (Gatan View 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 L. Clark, PhD
Adjunct Professor (Biological Structure)

Jennifer Chao, MD, PhD
Research Assistant Professor (Ophthalmology)

Jainhai Du, PhD
Research Assistant Professor (Ophthalmology)

Ione Fine, PhD
Professor (Psychology)

Anita Hendrickson, PhD
Professor Emerita, (Biological Structure)

Jim Hurley, PhD
Adjunct Professor (Biochemistry)

Dirk Keene, MD, PhD
Adjunct Professor (Pathology)

Murray Johnstone, MD
Clinical Professor (Ophthalmology)

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

Aaron Lee, MD
Assistant Professor (Ophthalmology)

Cecilia Lee, MD
Acting Assistant Professor (Ophthalmology)

Mike Manookin, PhD
Assistant Professor (Ophthalmology)

Mike Mustari, PhD
Research Professor (Ophthalmology)

Jay F. Neitz, PhD
Bishop Professor (Ophthalmology)

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

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

Kathryn Pepple, 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
Lions’ Professor (Ophthalmology)

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

Ruikang "Ricky" Wang, PhD
Adjunct Professor (Biomedical Engineering)

Rachel Wong, PhD
Adjunct Professor (Biological Structure)

Jing Zhang, PhD
Adjunct Professor (Neuropathology)
Clinical trials and other non-federal grants and trials are the tools of translation between patient care and research.

**Diabetic Retinopathy Clinical Research (DRCR)**
SPONSOR: Jules Stein Eye Institute of the University of California, Los Angeles
PERIOD: 2014-2018

**Myopia risks and disease mechanisms**
SPONSOR: National Institutes of Health (NIH)
PERIOD: 2012-2017

**Microbiome analysis of the ocular surface in dry eye disease**
SPONSOR: Allergan, Inc.
PERIOD: 2018-2020

**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**
SPONSOR: Eli Lilly and Company
PERIOD: 2012-2015

**Personalized Medicine for Macular Degeneration: High Throughput Screening for Small Molecule Therapeutics**
SPONSOR: Bausch & Lomb
PERIOD: 2010-2015

**Genes and visual pigments of red-green color vision**
SPONSOR: National Institutes of Health (NIH)
PERIOD: 2011-2015

**Nano Grant-Function of nano-medical compounds in the treatment of blindness**
SPONSOR: UC Berkeley/NATIONAL INSTITUTES OF HEALTH
PERIOD: 2010-2015

**Flare photometry in uveitis patients**
SPONSOR: National Institutes of Health
PERIOD: 2013-2015

**K08-The role of innate and adaptive immune system in a novel mouse model uveitis**
SPONSOR: NATIONAL EYE INSTITUTE-EY023998
PERIOD: 2014-2019

**Double-Masked Randomized Sham-Controlled Trial of QPI-1007 Delivered by a Single Intravitreal Injection to Subjects with Acute Primary Angle-Closure Glaucma (APACG)**
SPONSOR: Quark Pharmaceuticals
PERIOD: 2013-2016

**SCORE2 (Clinical Trial)-SCORE2 Comparative Trial (SCT)-Pennsylvania State University**
SPONSOR: NATIONAL INSTITUTES OF HEALTH
PERIOD: 2014-2018

**F32 Grant-Functional imaging of retinal ganglion cells receiving s-cone inputs using viral-delivered arclight**
SPONSOR: NATIONAL INSTITUTES OF HEALTH
PERIOD: 2014-2017

**K08-Stem-cell properties of human corneal keratocytes**
SPONSOR: NATIONAL INSTITUTES OF HEALTH
PERIOD: 2010-2015

**Light encoding properties of wiry-type and starburst amacrine cells of the primate retina**
SPONSOR: NATIONAL INSTITUTES OF HEALTH-HG002815
PERIOD: 2014-2016

**Flare photometry in uveitis patients**
SPONSOR: National Institutes of Health
PERIOD: 2013-2015

**K08-The role of innate and adaptive immune system in a novel mouse model uveitis**
SPONSOR: NATIONAL EYE INSTITUTE-EY023998
PERIOD: 2014-2019
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**

**PATIENT CARE**

- **27,000 + 1,800** patients per year – surgical procedures
- Physicians in the Eye Institute see about 27,000 patients per year and perform more than 1,800 surgical procedures.

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.

**FACULTY**

- **47** faculty members
- **7** Ph.D. scientists
- **6** faculty who hold both MD and PhD degrees

The Department of Ophthalmology currently has 47 faculty members, including 7 Ph.D. scientists and 6 faculty who hold both MD and PhD degrees.

**EDUCATION**

- **15** ophthalmologists
- **9,000** hours of training

The department educates 15 resident ophthalmologists through its ACGME accredited training program, provides 9,000 hours of training, and has an pathology/research rotation.

- **4** fellowships

The department sponsors 4 fellowships, specializing in medical retina and vitreoretinal surgery, neuro-ophthalmology, uveitis, and pediatric ophthalmology.

**UW MEDICINE OPHTHALMOLOGY PATIENT CARE FACULTY**

**COMPREHENSIVE**

**Eissa Hanna, MD**

Dr. Hanna is an assistant professor of ophthalmology at the University of Washington and is the director of Consult Services for Harborview Medical Center’s 4West Clinic.

**EDUCATION**

- MD - University of California, Davis Residency - Penn State University Fellowship - Harvard University

**PATIENT CARE PHILOSOPHY**

He 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**

As a comprehensive ophthalmologist, Dr. Hanna treats a wide variety of conditions that affect the eye and eyelids.

**Anne Ko, MD**

Dr. Ko is an acting assistant professor of ophthalmology at the University of Washington. She specializes in the treatment of cornea and external diseases.

**EDUCATION**

- BS - Neuroscience, Brown University MD - Brown University Internship - Internship, Cabrini Medical Center, Mount Sinai School of Medicine Residency - Ophthalmology, New York Eye and Ear Infirmary Fellowships - Cornea and External Disease, USC/ Doheny Eye Institute

**PATIENT CARE PHILOSOPHY**

My role as a physician involves giving patients the information they need to make an informed decision about their care.

**SCOPE OF CARE**

Comprehensive Ophthalmology and Cornea and External Disease

**Deborah L. Lam, MD**

Dr. Lam is a comprehensive ophthalmologist, UW assistant professor, and chief of ophthalmology. She is an attending physician at the Veterans Affairs Puget Sound Healthcare system.

**EDUCATION**

- BA - Northwestern University, Evanston, IL MD - Northwestern University, Evanston, IL Residency - University of Washington Hospitals, Seattle, WA Chief Residency - University of Washington Hospitals, Seattle, WA

**PATIENT CARE PHILOSOPHY**

She 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**

Diagnosis and treatment of a comprehensive range of eye conditions, including such entities as cataract, glaucoma, diabetic retinopathy, macular degeneration, ocular surface diseases and eye trauma.
**Parisa Taravati, MD**
Dr. Taravati is an assistant professor and director of the Eye Center at UWMC. Her primary clinical interest is comprehensive ophthalmology. Dr. Taravati also serves as the residency program director.

**EDUCATION**
BS - University of Iowa
MD - University of Iowa
Residency - University of Iowa Hospitals & Clinics

**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 comprehensive ophthalmologist who treats patients through both medical and surgical procedures, as well as in-office exams. She manages a wide range of eye conditions, including dry eye, blepharitis, cataracts, glaucoma, and color blindness.

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**Jennifer T. Yu, MD, PhD**
Dr. Yu is a UW clinical assistant professor and an attending physician at 4 West Clinic at Harborview Medical Center. Her clinical interest is in comprehensive eye care including dry eyes, blepharitis, cataracts and cataract surgery, glaucoma, diabetes in the eye and macular degeneration.

**EDUCATION**
BS - University of Michigan, Ann Arbor, MI
PhD - Washington University School of Medicine
Residency - Internal Medicine Beth Israel Medical Center
Residency - Ophthalmology, New York Eye and Ear Infirmary
Fellowship - Cornea and External Diseases, Kellogg Eye Institute

**PATIENT CARE PHILOSOPHY**
I want to provide all my patients with personalized and high-quality care. I believe that education is at the core of partnership that I strive to have with all my patients.

**SCOPES OF CARE**
The medical and surgical treatment of glaucoma, comprehensive ophthalmology, and complex cataract surgery.

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**Shivali Menda, MD**
Dr. Menda is an acting assistant professor of ophthalmology at the University of Washington. She focuses on the surgical treatment of glaucoma, as well as comprehensive ophthalmology and complex cataract surgery.

**EDUCATION**
BS - Neurobiology - University of Washington
MD - Oregon Health & Science University
Internship - Providence Portland Medical Center
Residency - Ophthalmology, University of California, San Francisco, Fellowship - Glaucoma, Casey Eye Institute and Devers Eye Institute

**PATIENT CARE PHILOSOPHY**
I want to provide all my patients with personalized and high-quality care. I believe that education is at the core of partnership that I strive to have with all my patients.

**SCOPES OF CARE**
The medical and surgical treatment of glaucoma, comprehensive ophthalmology, and complex cataract surgery.

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**Michael Banitt, MD**
Dr. Banitt is an associate professor of ophthalmology at the University of Washington. He specializes in cornea and refractive surgery, glaucoma.

**EDUCATION**
BS - Biology, St. Louis University, BA, Chemistry, St. Louis University
MD - Wayne State University School of Medicine
Residency - Ophthalmology, University of Public Health
Internship - Internal Medicine Beth Israel Medical Center
Residency - Ophthalmology, New York Eye and Ear Infirmary
Fellowship - Cornea and External Diseases, Kellogg Eye Institute, Glaucoma, Bascom Palmer Eye Institute

**SCOPES OF CARE**
Cornea and refractive surgery, glaucoma.

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**Tueng T. Shen, MD, PhD**
Dr. Shen is a UW professor of ophthalmology and an adjunct in bioengineering. She specializes in refractive surgery, cataract surgery, and medical and surgical management of corneal disorders. She also established the region's artificial cornea transplant program to treat severe corneal blindness.

**EDUCATION**
BA - Wellesley College and Oxford University
PhD - Massachusetts Institute of Technology
MD - Harvard Medical School
Residency - Massachusetts Eye and Ear Infirmary, Harvard
Fellowship - Cornea/Refractive, 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.

**SCOPES OF CARE**
Refractive surgeries (laser and non-laser surgeries) to minimize refractive errors and reduce dependence on glasses or contact lenses, cataract surgeries, corneal surgeries (PK, DSEK, artificial cornea surgeries, conjunctival surgeries, stem cell transplant surgeries) and medical management of all areas of corneal diseases.
GLAUCOMA

**Philip P. Chen, MD**

Dr. Chen is the Grace E. Hill Chair in Vision Research, professor and chief of ophthalmology at UW Medical Center and Harborview Medical Center.

**EDUCATION**
- BS - Stanford University
- MD - Yale University
- Residency - Doheny Eye Institute
- Fellowship - Glaucoma, Bascom Palmer Eye Institute

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

**SCOPE OF CARE**
- All types of glaucoma and cataracts, particularly complex glaucoma and cataract surgery.

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**Raghu Mudumbai, MD**

Dr. Mudumbai is an UW associate professor of ophthalmology and an attending physician at the UW Medicine Eye Institute at Harborview Medical Center. Dr. Mudumbai specializes in glaucoma, neuro-ophthalmology, and treats patients with multiple sclerosis.

**EDUCATION**
- BA - Harvard University
- MD - University of California at Los Angeles
- Internship - Internal Medicine, Cedars-Sinai Medical Center
- Residency - University of California at Los Angeles
- Fellowship - Glaucoma, Duke University

**PATIENT CARE PHILOSOPHY**
He takes a patient-centered approach and is excited to be practicing at a time when recent advances in multiple sclerosis treatment offer real hope to patients.

**SCOPE OF CARE**
- Glaucoma, Multiple Sclerosis, Strabismus

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**Joanne C. Wen, MD**

Dr. Wen is an assistant professor of ophthalmology at the University of Washington. She specializes in the medical and surgical management of glaucoma.

**EDUCATION**
- BA - Harvard University
- MD - University of California at Los Angeles

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**Jennifer Chao, MD, PhD**

Dr. Chao is an assistant professor and attending physician at the UW Eye Institute at Harborview Medical Center. She is a clinician scientist who specializes in diseases of the retina, vitreous, and macula.

**EDUCATION**
- BS - Stanford University
- PhD - Yale University
- Residency - USC/Doheny Eye Institute
- Fellowship - Vitreoretinal Surgery, USC/Doheny Eye Institute

**PATIENT CARE PHILOSOPHY**
Dr. Chao is dedicated to bringing the highest quality of care to her patients by offering the most up-to-date diagnostic and treatment options to her patients. She enjoys partnering with her patients in their care, listening to them, and keeping them informed of the latest in current research regarding challenging retinal diseases.

**SCOPE OF CARE**
- Dr. Chao offers both medical and surgical treatments for vitreoretinal diseases.

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**James L. Kinyoun, MD**

Dr. Kinyoun is a UW professor of ophthalmology and attending physician at the UW Eye Institute at Harborview Medical Center, who specializes in medical and surgical diseases of the retina and vitreous.

**EDUCATION**
- BS - University of Nebraska
- MD - University of Nebraska College of Medicine
- Intern - Medical College of Wisconsin
- Residency - Medical College of Wisconsin
- Fellowship - Retina and Vitreous, University of Minnesota

**PATIENT CARE PHILOSOPHY**
Each patient is unique and deserves individual attention regarding final diagnosis and selection of treatment. What worked very well for the last patient with the same eye problem may not be the best treatment choice for every patient. Educating each patient about the diagnosis and treatment options available allows the patient to become a part of the decision-making process.

**SCOPE OF CARE**
- Medical and surgical care of retina and vitreous diseases including retinal detachment, diabetic retinopathy, vitreous hemorrhage, age-related macular degeneration, and other macular abnormalities with intraocular injections, vitrectomy, scleral buckle, laser photocoagulation, and laser surgery. Preoperative evaluations include interpretation of fluorescein angiography, B-scan ultrasoundography and optical coherence tomography.

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**Aaron Lee, MD, MS**

Dr. Lee is an assistant professor of ophthalmology at the University of Washington and attending physician at the VA Puget Sound Health Care System, who specializes in vitreoretinal and macular diseases including epiretinal membranes, macular hole repair, retinal detachment repair, and hereditary macular dystrophies.

**EDUCATION**
- BS - Biochemistry, 2004
- MD - Washington University School of Medicine, 2009
- MS - Washington University School of Medicine, 2009
- Internship - Internal Medicine, St. John’s Mercy Medical Center, 2010
- Residency - Ophthalmology, Washington University School of Medicine, 2013
- Fellowships - Medical Retina, Moorfields Eye Hospital, 2014; Surgical Retina, University of British Columbia, 2015

**PATIENT CARE PHILOSOPHY**
As a clinician scientist, I am 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**
- Vitreoretinal and macular diseases including epiretinal membranes, macular hole repair, retinal detachment repair, and hereditary macular dystrophies.
Richard S. Munsen, MD
Dr. Munsen is a UW clinical associate professor and an attending physician at the UW Eye Institute at Harborview Medical Center. His sub-specialty is diseases and surgery of the retina and vitreous.

EDUCATION
- BA - St. Olaf College
- MD - University of Iowa
- General Medical Officer (general practice medicine) - US Air Force
- Residency - University of Michigan
- Fellowship - Diseases and Surgery of the Retina, Vitreous University of Iowa.

PATIENT CARE PHILOSOPHY
Dr. Munsen treats all patients as if they were family members. The patient always comes first.

SCOPE OF CARE
His expertise includes consultation for problems, as well as any laser treatment, all types of retinal, vitreous and macular vascular occlusions, and age related macular degeneration.

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

EDUCATION
- MD, Azad University, Tehran, Iran
- Internship, General Surgery, Vanderbilt University
- Residency, Vanderbilt Eye Institute, Vanderbilt University

PATIENT CARE PHILOSOPHY
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.

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

EDUCATION
- MD, Arizona State University, Tempe, AZ
- Internship, General Surgery, Vanderbilt University
- Residency, Vanderbilt Eye Institute, Vanderbilt University
- Fellowship - Vitreo-Retinal Fellowship, Associated Retina Consultants

PATIENT CARE PHILOSOPHY
It is a great honor to participate in the care of patients and improve their vision and quality of life.

SCOPE OF CARE
Dr. Francis enjoys educating her patients on their diagnoses and making them active participants in their medical care.

A.J. Amadi, MD
Dr. Amadi is a UW clinical assistant professor of ophthalmology and attending physician of the UW Eye Institute at Harborview Medical Center.

EDUCATION
- BS - Brown University
- MD - University of Rochester
- Residency - New York University Medical Center
- Fellowship - Eye Pathology/Ocular Oncology, Harvard Medical School, Massachusetts Eye and Ear Infirmary; Oculofacial Surgery, Department of Ophthalmology, University of Washington

PATIENT CARE PHILOSOPHY
Patients always come first.

SCOPE OF CARE
Orbital and ophthalmic/facial plastic surgery.

Christopher Chambers, MD
Dr. Chambers is an assistant professor of ophthalmology at the University of Washington. He specializes in pediatric ophthalmology, oculofacial plastic and orbital surgery.

EDUCATION
- BS - University of Notre Dame
- MD - The Ohio State University College of Medicine
- Internship - Internal Medicine, Resurrection Medical Center
- Fellowship - Ophthalmology, Kneze Eye Institute

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

SCOPE OF CARE
Pediatric ophthalmology, oculofacial plastic and orbital surgery

Shu-Hong (Holly) Chang, MD
Dr. Chang is a UW clinical assistant professor of ophthalmology and attending physician at the UW Eye Institute at Harborview Medical Center. She cares for patients with plastic surgery disorders affecting the eyelids, nasolacrimal system, orbit, face, and neck.

EDUCATION
- BA - Duke University
- MD - Johns Hopkins University
- Residency - Washington University
- Fellowships - Oculoplastic Pathology, Washington University; Oculoplastic Surgery, University of California

PATIENT CARE PHILOSOPHY
As an ophthalmic pathologist as well as orbital and oculofacial plastic surgeons, Dr. Chang understands the microscopic basis of diseases, but approaches each patient as individuals with unique reconstructive and aesthetic goals.

SCOPE OF CARE
Dr. Chang provides medical and surgical care for patients with all forms of ptoisis (droopy eyelids and eyebrows), nasolacrimal duct disease, orbital tumors/inflammation, Graves disease, eye socket abnormalities, facial skin cancers, and facial trauma. Cosmetic procedures include botulinum toxin injections, periocular and facial synthetic and fat fillers, chemical and laser skin resurfacing, eyebrow and eyelid lifts, and face/neck rejuvenation.
Yasmin Shayesteh, MD
Dr. Shayesteh is an acting assistant professor of ophthalmology at the University of Washington. She specializes in oculofacial plastics and orbital Surgery.

EDUCATION
BS - Microbiology, California Polytechnic State University
MD - Georgetown University School of Medicine
Internship - Internal Medicine, New York Medical College
Residency - Ophthalmology, George Washington University Fellowship - Oculoplastics, University of Pennsylvania

SCOPE OF CARE
Occulofacial plastics and orbital surgery

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, director emeritus of the American Board of Ophthalmology and a recipient of the Life Achievement Honor Award of the American Academy of Ophthalmology.

EDUCATION
BA - University of Minnesota
BS - 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.

Claire Angel, OD
Dr. Angel is a UW teaching associate; her clinical focus is on corneal disease. She was the clinical director of Omni Eye Services and the Optometric Director of Refractive Services at TLC Laser Eye Centers and was in private practice for 15 years.

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

PATIENT CARE PHILOSOPHY
Compassion and individual attention are critical in providing patients with highest standards of comprehensive optometric eye care. Dr. Angel 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
Comprehensive optometric eye care which includes annual eye examinations, baseline dilated fundus exam for patients diagnosed with systemic diseases and evaluation, treatment and appropriate referrals for red eye.

Tiffany Hollenbeck, OD
Dr. Hollenbeck is a UW teaching associate and optometrist who practices at Eyes on James Optical Shop and the UW Neighborhood Clinics. Prior to joining UW Medicine, Dr. Hollenbeck worked in private optometry and ophthalmology practices for 10 years. After working in a group practice, Dr. Hollenbeck built a private clinic in Redmond, Washington, working largely with primary care and contact lenses.

EDUCATION
BS - Southern College of Optometry
OD - Southern College of Optometry

PATIENT CARE PHILOSOPHY
Dr. Hollenbeck is compassionate with her patients and believes in providing them with the knowledge needed to be proactive with their eye health.

SCOPE OF CARE
Dr. Hollenbeck provides comprehensive optometric care, specializing in eye exams, contact lens fittings, treating dry eye and allergies as well as screening for cataracts, glaucoma and macular degeneration. She also has experience working with opthalmologists to assist in caring for patients for refractive surgery, cataract surgery and corneal transplants.

Vivian Manh, OD, MS
Dr. Manh is a UW clinical instructor in ophthalmology. She provides comprehensive pediatric eye care at Seattle Children's Hospital.

EDUCATION
BS - University of Waterloo School of Optometry
OD - University of Waterloo School of Optometry
MS - Indiana University School 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 my 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 provides eye care for the pediatric and special needs populations and diagnosis and management of strabismus/ambyloplia and non-strabismic binocular vision disorders.

Nancy Ross Anibarro, OD
Dr. Ross is a UW teaching associate and primary optometrist for the refractive Surgery Center at UW Medical Center.

EDUCATION
BA - Exercise and Sport Science, Minor in Chemistry - Western Washington University
OD - Pacific University College of Optometry
Post-graduate - Wescide VAMC, Chicago, IL
Post-graduate - Hines VA Blind Rehabilitation Center, Hines, IL

PATIENT CARE PHILOSOPHY
Compassion and individual attention are critical in providing patients with 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
Comprehensive primary eye care which includes annual eye examinations, baseline dilated fundus exam for patients diagnosed with systemic diseases and evaluation, treatment or appropriate referrals for red eye emergencies. She also provides refractive surgery consultations, comprehensive pre-operative eye exams for LASIK, PRK and cataract patients, post-operative follow-up and general eye exams for past refractive surgery patients.
James Toop, OD, PhD
Dr. Toop is a primary care optometricist and UV teaching associate with an emphasis on contact lens fitting. He sees patients of all ages.

EDUCATION
BSc, University of Edinburgh, Scotland
PhD - University of Edinburgh, Scotland
OD - New England College of Optometry

PATIENT CARE PHILOSOPHY
Her daily commitment is in providing children a comfortable and friendly environment so they feel at ease during eye exams. She understands that an unfamiliar environment can be intimidating, so she tries to make the whole experience as much fun as possible, which makes each day an exciting opportunity to help young people.

Good vision is essential for proper physical and emotional development, as well as educational progress in growing children. She aims to empower her adult patients to understand their medical condition and take an active role in their care. She also believes that listening is the first step in treating a patient’s medical condition.

EDUCATION
BA - Washington University
MD - Hofstra University
Residency - State University New York
Pediatric Fellowship - Children’s National Medical Center

SCOPE OF CARE
Pediatric Ophthalmology, Strabismus

Francine M. Baran, MD
Dr. Baran is a UW clinical associate professor of ophthalmology and a member of the surgical faculty team at Seattle Children’s.

PATIENT CARE PHILOSOPHY
Her daily commitment is in providing children a comfortable and friendly environment so they feel at ease during eye exams. She understands that an unfamiliar environment can be intimidating, so she tries to make the whole experience as much fun as possible, which makes each day an exciting opportunity to help young people.

Good vision is essential for proper physical and emotional development, as well as educational progress in growing children. She aims to empower her adult patients to understand their medical condition and take an active role in their care. She also believes that listening is the first step in treating a patient’s medical condition.

EDUCATION
BA - Washington University
MD - University of California at San Francisco
Intern - Internal Medicine, Mt. Sinai School of Medicine
Residency - University of California at San Francisco

SCOPE OF CARE
Pediatric Ophthalmology, Strabismus

Michelle T. Cabrera, MD
Dr. Cabrera is a UW assistant professor of ophthalmology and a physician at Seattle Children’s.

PATIENT CARE PHILOSOPHY
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.

EDUCATION
BA - University of Notre Dame
MD - Loyola University Stritch School of Medicine
Residency - University of Washington
Fellowship – Wilmer Ophthalmological Institute, University of Southern California, Keck School of Medicine

SCOPE OF CARE
Pediatric Ophthalmology, Strabismus

Erin P. Herlihy, MD
Dr. Herlihy is a UW assistant professor of ophthalmology and a physician at Seattle Children’s.

PATIENT CARE PHILOSOPHY
A fun and nonthreatening environment is essential in engaging children and their families to participate in their eye care. Children are not just little adults.

EDUCATION
BS - Stanford University
MD - University of California at San Francisco
Residency - University of California at San Francisco

SCOPE OF CARE
Pediatric Ophthalmology, Strabismus

Kristina Tarczy-Hornoch, MD, D. Phil
Dr. Tarczy-Hornoch is an associate professor of ophthalmology at the University of Washington and associate chief of ophthalmology at Seattle Children’s Hospital. Her clinical and research interests focus on disorders that affect visual development in children.

EDUCATION
BA - University of Oxford, Oxford, UK
MD - University of California at San Francisco, School of Medicine
D. Phil - Neurophysiology - University of Oxford, Oxford, UK
MS - Clinical and Biomedical Investigation - University of Southern California
Internal Medicine Internship - University of Washington, School of Medicine
Residency - Doheny Eye Institute, University of Southern California, Keck School of Medicine
Fellowship – Wilmer Ophthalmological Institute, University of Maryland, Baltimore

SCOPE OF CARE
Pediatric Ophthalmology

Avery H. Weiss, MD
Dr. Weiss’ clinical interests include visual disorders, eye movement abnormalities, cataract and glaucoma, retinoblastoma and orbital tumors, ocular malformations and ophthalmological manifestations of systemic diseases.

PATIENT CARE PHILOSOPHY
Caring for children means caring for the whole family. Parents will do everything possible to help their children, but can sometimes feel overwhelmed by the decisions they face, especially when there isn’t just one right answer. 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.
Cecilia Lee, MD
Dr. Lee is a UW acting instructor of ophthalmology. She is a clinician scientist and her time is divided between seeing patients with retinal conditions, performing cataract extractions, teaching, and pursuing her research in medical retina and uveitis.

EDUCATION
BS - Emory University
MD - Emory University School of Medicine Internship - Translational, Emory University Residency - Ophthalmology, Emory University Fellowship - Uveitis, Washington University in St. Louis, Medical Retina, Moorfields Eye Hospital

PATIENT CARE PHILOSOPHY
I love participating in my patients’ healthcare by providing personalized, up-to-date medical care. I enjoy 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 offers medical treatments for vitreoretinal diseases and performs cataract surgeries. She enjoys being actively involved in clinical research and teaching residents. She is dedicated to educating her patients with the most current information and offering diverse treatment options.

Thellea Leveque, MD, MPH
Dr. Leveque is a clinical associate professor at the University of Washington. She is a comprehensive ophthalmologist and uveitis specialist at the UW Eye Institute at Harborview Medical Center. Dr. Leveque sees patients in comprehensive ophthalmology and uveitis.

EDUCATION
BA - Amherst College
MD - Duke University School of Medicine
MPH - University of North Carolina Residency - University of Michigan

PATIENT CARE PHILOSOPHY
Patient education and participation in care is vital to eye health. “I will do everything I can to explain your eye condition in a way that makes sense to you. There is no such thing as a dumb question!”

SCOPE OF CARE
All 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.

Kathryn L. Pepple, MD, PhD
Dr. Pepple is an acting assistant professor of ophthalmology. 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.

EDUCATION
BS - Microbiology, University of Oklahoma
MD - Baylor College of Medicine
PhD - Baylor College of Medicine Internship - The Methodist Hospital Residency - Ophthalmology, Duke University Fellowship - Medical Retina, Duke University, Uveitis, University of Washington

PATIENT CARE PHILOSOPHY
My 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, chorioretinitis and scleritis, and medical retinal disease including age related macular degeneration, diabetic retinopathy, and retinal vascular diseases.

Russell N. Van Gelder, MD, PhD
Dr. Van Gelder is the UW Boyd K. Bucey Professor and chair of the Department of Ophthalmology and Director of the UW Medicine Eye Institute. Dr. Van Gelder is a clinician scientist. His primary clinical interest is in ocular inflammatory disease (uveitis and related conditions). He also cares for patients with medical retinal diseases.

EDUCATION
BS - Stanford University
MD - Stanford University School of Medicine
PhD - Stanford University Hospital and Veterans Administration Hospital Residency - Barnes Hospital, Washington University Medical School Fellowship - Uveitis and Medical Retina, Barnes Retina Institute

PATIENT CARE PHILOSOPHY
Dr. Van Gelder practices evidence-based medicine supported by over a decade of practice in uveitis. He gives the same thorough, personal attention to each patient. He involves the entire eye care team in patient care, and he examines each patient and discusses his or her care with patience and thoroughness. Dr. Van Gelder involves patients in their care decisions and takes each patient's individual philosophy and preference into account when deciding on a treatment course.

SCOPE OF CARE
Dr. Van Gelder treats ocular inflammatory and medical retinal disease primarily through medical treatments, as well as in-office procedures.
The University of Washington has trained more than 150 eye physicians and surgeons since 1966. Our award-winning faculty members, modern teaching facilities, and volume of pathology make the University of Washington an ideal learning environment.

**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 ASOPRS-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.
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With gratitude to our philanthropic partners, whose generosity and personal interest endow us with the ability to pursue cutting-edge and innovative projects in developing treatments and cures for blinding eye diseases.

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The Community Action Board (CAB) is a group of motivated members of our community, who serve as our ambassadors in the wider world, and who have generously supported the Department and Eye Institute with their own gifts this past year. These gifts will help spur innovation as well, in the form of seed grants for our junior faculty. We are honored and privileged to be able to work with such a fine group of individuals from the greater Puget Sound region as we pursue our mission of eliminating blinding eye disease.

HIGHLIGHTS OF THE BOARDS PHILANTHROPIC WORK INCLUDE

- A resident research rotation to create opportunities for residents to gain deeper experience with the research process
- The purchase of equipment for clinical care or research
- Targeted recruitment
- The purchase of an “adaptive optics” system for vision research
- Devices to support curriculum materials for residents
- Vision Research Innovation Awards

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Brenda Siddall
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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

**UW Medicine Belltown Clinic**
Suite 200
2505 Second Ave.
Suite 200
Seattle, WA 98121
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